

LA SALLE UNIVERSITY



BULLETIN
1989–1990



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Catalog Issue

A Liberal Arts University for Men and Women • Conducted by the Brothers of the Christian Schools
Philadelphia • Pennsylvania • 19141 • 215-951-1000

AN EQUAL OPPORTUNITY UNIVERSITY

La Salle University does not discriminate against any applicant because of race, color, creed, sex, age, physical handicap, or national origin. Admission is based upon an applicant's qualifications and ability to meet the established requirements for admission and for specific programs.

ACCREDITATION AND MEMBERSHIPS

La Salle University was chartered in 1863 by the Legislature of the Commonwealth of Pennsylvania and is empowered by that authority to grant academic degrees. It is accredited with the Middle States Association of Colleges and Secondary Schools, the Pennsylvania Department of Education, the Regents of the University of the State of New York, the American Chemical Society, the Pennsylvania State Board of Law Examiners, and the Council on Social Work Education.

Member of: American Council on Education, Association of American Colleges, Association of College and University Housing Officers, College Entrance Examination Board, American Association of Collegiate Registrars and Admissions Officers, Association of College Admissions Counselors, National Catholic Educational Association, College and University Council of Pennsylvania, Association of Liberal Arts Colleges of Pennsylvania for the Advancement of Teaching, Pennsylvania Catholic Education Association, American Library Association, Urban Studies Association, National Commission on Accrediting, American Catholic Historical Society, Educational Conference of the Brothers of the Christian Schools, National Association for Foreign Student Affairs, National Association of Student Personnel Administrators, and National Association of College and University Business Officers.

RIGHTS AND PRIVACY ACT PROVISIONS

Each year, La Salle University informs students of the Family Educational Rights and Privacy Act of 1974. This Act was intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

To fulfill basic requirements for compliance with the Act, each institution must inform each student of his/her right to prevent disclosure of personally iden-

tifiable information. Although La Salle does not publish a public directory, the Office of the Registrar, at its discretion, does disclose the following information: Name, address, dates of attendance, class, major field of study, and degree(s) conferred (including dates).

Under the provisions of the Rights and Privacy Act, currently enrolled students may withhold disclosure of such information. To prevent disclosure, written notification must be received by the Office of the Registrar by October 1st in the Fall Semester and February 15th in the Spring Semester. The University will honor each request to withhold any of the categories of information listed above but cannot assume responsibility to contact a student for subsequent permission to release them. Decisions about withholding any information should be made very carefully. Should a student decide to inform the institution not to release any information, any future requests for such information from non-institutional persons or organizations will be refused.

La Salle University assumes that failure to request the withholding of "directory information" indicates approval for disclosure.

To comply fully with the provisions of the Commonwealth of Pennsylvania's Act 73, the College and University Security Information Act of 1988, La Salle University has available its Crime Statistics Report for 1988, as well as a new publication entitled "Safety and Security at La Salle University." Copies of either document may be requested without charge in writing from the News Bureau, La Salle University, 20th Street and Olney Avenue, Philadelphia, PA 19141.

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A Profile



To Introduce Ourselves . . .

In this short profile, we'd like to tell you a few important details about La Salle, one of Pennsylvania's oldest colleges and newest universities. Founded in 1863, La Salle College became La Salle University in 1984. La Salle today is a private comprehensive university related to the Roman Catholic Church and conducted under the auspices of the Christian Brothers. We hope these facts will help you get to know us better and to share our pride in more than 125 years of educational excellence.

La Salle is one of two institutions of higher education in the East conducted by the Christian Brothers (the other being Manhattan College). The Brothers were founded by St. John Baptist de La Salle in the 17th century. For more than 300 years, the order has been known for dedicated teaching and devotion to students. The spirit of the order carries over to the faculty and administration of La Salle University where diverse backgrounds unite to carry out the objectives of the University in an atmosphere of respect for the individual.

We think La Salle is big enough for efficiency, yet small enough to stimulate personal contacts between students and teachers. The day division enrolls 3400 men and women. The average class size is 20 students; there are no lecture sections numbered in the hundreds and no graduate assistants handling basic courses or marking papers for professors who do not know their own students. Yet the University is large enough to offer 45 different degree programs or special concentrations.

La Salle is located in the northwestern portion of Philadelphia on the edge of Germantown, site of a Revolutionary War battle and one of the oldest neighborhoods in Philadelphia. The campus covers more than 100 acres and includes Bel-field, a farm that once belonged to American painter Charles Willson Peale. Entering the campus from one of the busy city streets around it has been described by one visitor as "entering a place of quiet beauty. It's hard to believe you're in a large city." But Philadelphia *is* a large city, filled with interesting people, places and events. The University is less than half an hour from center city's museums, concert halls, restaurants, sporting events, and shopping. The school is only two hours away from Pocono Mountain ski

resorts or the boardwalks and beaches of the Jersey shore.

How good is La Salle academically? A good academic institution has a talented faculty, good students, and a solid library. A glance at the faculty directory at the end of this catalog will demonstrate the sound academic credentials of La Salle's professors; what it does not show is the dedication to teaching and to students that is the greatest strength of the faculty. About 70% of last year's freshmen graduated in the top 40% of their high school class, but the statistics don't show the many students who entered La Salle with less-than-superb high school records and matured and blossomed in the atmosphere of this University. The new Connelly Library is one of the most beautiful, most advanced academic libraries in the country. It has more than 300,000 volumes and offers the state of the art in computerized information retrieval.

Another measure of La Salle's academic standing: how many of our graduates go on to earn Ph.D. degrees? In a nationwide study of nearly 900 private Baccalaureate institutions, La Salle ranks in the top 4% since 1977 as an originating school for Ph.D.s.

What do the top U.S. arms control official, the Dean of the Medical School at the University of Pennsylvania, the president of the Philadelphia Stock Exchange, a Pulitzer Prize-winning author and Academy Award nominee for *A Soldier's Story*, the drama critic for CBS, the Dean of Villanova University Law School, and the Chief of Staff at Massachusetts General Hospital have in common? You guessed it: a La Salle education.

La Salle graduates have distinguished themselves in the nation's best graduate schools, law schools, and medical schools. In recent years, our students have won scholarships or assistantships to top-rated graduate schools, including Harvard, Cornell, Stanford, University of Chicago, and University of Virginia. La Salle men and women have earned law degrees from Berkeley, Georgetown, Catholic University, Cornell, Dickinson, Duke University, and the University of Notre Dame.

To Introduce Ourselves . . .

Since 1977, more than 90% of all students recommended by the University have been admitted into medical schools, including Johns Hopkins, Harvard, Hahnemann, University of Pittsburgh, and University of Pennsylvania. La Salle graduates have won more than 40 Fulbright Scholarships and several Gundacker and Rotary International Fellowships for study abroad, as well as National Science Foundation grants for graduate study at U.S. institutions. La Salle students have also been honored with two of the nation's most prestigious awards: the Marshall and Truman Fellowships.

Many of these graduates participated in the exceptional Honors Program at La Salle. The *Newsletter* of the National Collegiate Honors Council described the program as "a very special sort not available to larger, general universities" and took note of a "really extraordinary record in terms of garnering Fulbright, Danforth, and Marshall scholarships."

Financial aid is a worrisome but necessary concern for parents. Without it, most students could not attend college today. At La Salle more than 90% of all undergraduates seeking financial assistance receive aid. Here's something to keep in mind: since aid is calculated on a "needs" formula, a student attending a private college may actually be eligible for more aid than would be available if he or she were attending a public or community college with an apparently lower tuition.

Besides partaking of the Philadelphia cultural scene, La Salle also contributes to it in significant ways. The art columnist for the *Philadelphia Inquirer* has written that La Salle has "the finest college art gallery in the Philadelphia area" and that "one would have to go to Yale, Harvard, or Princeton to find a better one." The summer Music Theatre, a Philadelphia institution now, has launched many performers' careers, including actors Pat Cronin, Russell Lieb, and dancer Judith Jamison. Over the years, La Salle has welcomed to the campus as speakers a distinguished array of names, including John F. Kennedy, Alan Paton, Ralph Ellison, Buckminster Fuller, Joyce Carol Oates, Joseph Papp, Robert Penn Warren, and

many others. La Salle and the University of Pennsylvania are the only two Philadelphia-area institutions to bring the Royal Shakespeare Company's Actors-in-Residence program to their students and the community.

Sports devotees generally think of basketball when they hear the name La Salle, and not without reason. La Salle is one of only nine teams to have won both the NCAA and NIT championships in men's basketball. In 1987 the men's team reached the final of the National Invitation Tournament. The women's team is currently enjoying its finest season. But basketball is only part of the story. The women's field hockey team won a national title in 1980; its goalie, Diane Moyer, was a part of the 1984 Olympic championship team. Among other past Olympic participants from La Salle are gold medalist swimmer Joe Verdeur, long jumper Ira Davis, and javelin thrower Al Cantello.

Hayman Hall, one of the East's finer athletic facilities, features a collegiate-sized pool, basketball, squash and handball courts, an indoor track, an exercise room, and virtually anything else an athletically-minded student might want. Organized intercollegiate and intramural sports afford students opportunities to participate according to their interests, but there is plenty of unorganized, free recreation as well. There are men's varsity teams in basketball, baseball, swimming, track, cross country, crew, soccer, golf, tennis, and wrestling. Women's teams include basketball, crew, cross country, field hockey, volleyball, tennis, swimming, softball, soccer, and track. Intramural sports such as touch football, volleyball, basketball, indoor soccer, softball, track, swimming, and tennis have men's, women's, and mixed teams.

Over the past two years, La Salle has constructed six tennis courts on the Belfield Estate, a new varsity softball field, and a state-of-the-art, porous polyurethane outdoor-track. These facilities add a new dimension to both recreation and intercollegiate activities at La Salle.

For those with recreational tastes other than or in addition to athletics, the La Salle Union offers films, plays, and concerts in its theater, so-

cial events in the ballroom, or a meal or a snack in one of its three dining rooms. Trained administrators in Student Affairs work closely with students and their organizations, sharing ideas and helping students to plan and carry out social and cocurricular activities. They recognize that social life is a vital part of your educational experience at the University, and they will work

with you to help you get the most out of your student activities.

Our profile of La Salle is incomplete, but our space and your time are both limited. The Admissions Office cordially invites you to pay us a visit and fill out the rest of the profile through personal experience. Call 215-951-1500 to arrange an appointment.



The People of La Salle

More than buildings, more than books, more than lectures and examinations, education is a matter of people. It is the people who make up La Salle—the students, teachers, and administrators—who give the community its character.

St. La Salle's dedication to teaching is the informing spirit of the University, and you will be conscious of this spirit in the willingness of your professors to give that extra moment of explanation or advice which can mean so much. While many of these men and women are engaged in their own scholarship or research, their primary focus is always the classroom and their basic obligation is to you, the student.

Making the transition between high school and college is never easy, but at La Salle you will find many people who want to help and who understand some of the problems you face perhaps better than you do yourself.

During the summer months preceding the start of classes you and your parents will be invited to participate in the Pre-College Counseling Program. At this time you will come to the campus for a full day of meetings with the Counseling Center staff, as well as representatives from Financial Aid, Resident Life, Career Planning and Placement, and other areas of the University. During the program you will have a personal interview with a counselor to discuss your educational and career plans, and will meet with an academic advisor who will assist you with your fall roster. In an informal atmosphere of small group discussions, you will also have the opportunity of sharing your ideas with other freshmen, with upperclassmen who have experienced the same transition, and with faculty members and administrators willing to assist. The overall aim of the summer program is to make your adjustment to college life as pleasant as possible.

In addition to this initial program, the Counseling Center offers counseling services throughout your college years. If you are uncertain of your major or of your career plans, the staff will assist you in making a sound choice based on your interests and capabilities. *Sigi-Plus*, a computer-assisted career exploration tool which helps students examine their values, interests, and skills systematically, is available for this purpose. The Center also offers personal counseling and psychiatric consultation, as well as informational services about graduate and professional schools

and a variety of occupations. Licensed psychologists are particularly well trained to assist students in overcoming anxiety and depression, interpersonal inadequacies, shyness, low self-esteem, and family conflicts. Besides offering individual counseling, the Center also conducts group sessions on a variety of topics of concern to students. Management of anxiety—particularly test anxiety—assertiveness training, overcoming shyness, self-esteem enhancement, improvement of study skills, and procrastination reduction are but a few of the topics that have been the focus of recent group programs. The sessions have proven popular and effective ways of aiding personal growth. An alcohol and drug program is also part of the Counseling Center's services. The mission of this program is to provide accurate information about psychoactive substances, educate the La Salle community about the realities of alcohol and other drug use, and provide referral and/or treatment for problems associated with abuse.

Being part of a church-related university means you are also part of a community in which people care about one another. Rooted in the commitment to a broad range of human and Christian values held by the University, the Campus Ministry Center plays an important role in maintaining that sense of community by incarnating the belief that ministry is an expression of God acting *with us*, *in us*, and *through us*. In addition to involvement in the planning and celebrating of daily and Sunday liturgies, participating in retreats and days of reflection and prayer, and attending lectures and workshops, you will be invited to develop your sense of Christian commitment by sharing your time and talents through voluntary social involvement in the local community. Supported by the Campus Ministry Center, such service can include working with Philadelphia's homeless, tutoring inmates in prison, working with children in a latch-key program, raising money for and awareness about Covenant House, assisting senior citizens with tax problems, spending your spring break in Appalachia or on a local work project, and helping school children prepare for first reception of the sacraments.

Nor is your physical well-being neglected while you are on campus. A physician is always on call, and a registered nurse is in daily attendance in

the dispensary. Medical insurance is available and recommended to all students.

Throughout your college days, the Director of the Career Planning and Placement Bureau will be at your service to help you select a career and assist you in planning job campaigns. This office is sometimes able to assist students in finding part-

time or summer jobs related to their career goals.

All in all, you will find the people at La Salle an important part of your education. Long after you have forgotten painfully memorized facts from a textbook or lecture, you will remember the teachers and students with whom you associated in your college years.



Living at La Salle

When you become part of the community of resident students, you will have greater opportunity for participation in the total collegiate experience. Extracurricular campus life and student activities abound for residents, who also benefit greatly from the convenience and access to academic facilities, student services, and cocurricular programs.

The community of residents is diverse, reflecting the range of backgrounds, personalities, and interests of La Salle's student body. Each residence hall floor and building takes on a character of its own, and the give-and-take of daily life promotes respect and concern for others. The halls contain a mixed group of students ranging from freshmen to seniors and are small enough to encourage a spirit of friendship on the floors.

The Resident Life Staff and the student-run Residence Council sponsor dances, movies, coffee houses, guest speakers, trips, special events

(Octoberfest, Spring Fling) and recreational activities. Many University clubs and organizations also sponsor a variety of activities in the residence halls and apartments. When combined with the wealth of cultural, historic, entertainment, sports, and educational resources available in the city of Philadelphia, residence life affords students the best combination of a collegiate and metropolitan environment.

Life in a university residence hall is an experience not to be duplicated elsewhere. Living with friends—studying, dining, socializing together—provides you with chances to learn about yourself, refine your ability to get along with and learn from others, and formulate goals and values which are critical for personal success after graduation. At La Salle, many things—staff, students, facilities, programs, and location—blend to offer residents a convenient, meaningful, and rewarding living experience.



Our History

La Salle University was chartered as La Salle College by the Commonwealth of Pennsylvania in 1863. La Salle's founders were a group of Christian Brothers, some diocesan priests, and several Catholic laymen. The school was first located at St. Michael's, one of the oldest parishes in Philadelphia. As the new college grew, it moved first to a center city site at Juniper and Filbert Streets and then to the old Bouvier mansion at 1240 North Broad Street.

La Salle moved to its present location at 20th Street and Olney Avenue in 1929, purchasing part of the historic Belfield Farm, once the home of American painter Charles Willson Peale. No sooner had work begun on the collegiate Gothic towers of College Hall than the country plunged into the greatest depression it has ever known. Somehow La Salle College survived the financial doldrums of the 1930's only to be faced by the greater threat posed by the depletion of the all-male student body during World War II. At its lowest enrollment the College had only 90 students.

After the war's end, a tremendous influx of veterans created an entirely new challenge of overcrowding. La Salle began an era of expansion that has continued to the present day. In 1970 La Salle ended its century-old tradition as an all-male institution and accepted its first women students. Today women make up half of the day school enrollment.

Building and expansion have continued at a rapid pace ever since 1946. A significant resident population of 1600 students is housed at La Salle. The most recent additions to the campus include a cluster of 75 modern townhouses and the spectacular Connelly Library. Acquiring the remainder of the Belfield Estate in 1984 added significantly to the campus, not only in acreage but also in beauty and historical tradition.

The physical growth on campus has been matched by the vitality and innovation of academic and student life programs. The curriculum has been revised after a careful faculty study. New majors and minors have been added. A special honors concentration in business has been developed. Financial aid to students has increased dramatically, as have the activities and services of the Student Affairs area.

In recognition of the growth and diversity of La Salle and the strength of its educational offerings, the Governor of the Commonwealth of Penn-

sylvania bestowed the status of university on La Salle in 1984. A new chapter in our history had begun.





Our Aims and Traditions

Though often mistakenly connected with the French explorer, the name of the University commemorates the 17th-century French educator and founder of the Christian Brothers, John Baptist de La Salle. The traditions of this saintly, innovative educator have been continued by the Brothers, a non-clerical order of religious who have been teaching in the United States since 1845. Under the auspices of the Brothers, the University strives to continue such LaSallian traditions as devotion to excellence in teaching, concern for ultimate values and for the individual values of its students.

In the light of these traditions, La Salle offers students an education founded on the idea that man's intellectual and spiritual development go hand in hand, complementing and fulfilling one another. The basic purpose of the University is a free search for truth and the development of materials and skills necessary for the search; its religious concern is an extension of that purpose. In a company of mature teachers and scholars, the University urges students to confront the ultimate questions of human experience: who they are; where their destiny lies; how they are to reach it.

La Salle is committed to a liberal education of both general and specialized studies. It wants its students to liberate themselves from narrow interests and prejudices and to learn to observe reality with precision, judge events and opinions critically, think logically, communicate effectively, and sharpen aesthetic perception. The curriculum involves a body of knowledge about the universe; about man—his nature, behavior, and values; about God. It also provides an opportunity to gain specialized knowledge in one field of learning as a preparation for graduate study or entry into professional life. Beyond this breadth and depth of knowledge, the University encourages its students to seek wisdom; that is, to grasp those basic principles which can give order to particular facts.

Although undergraduate education remains its primary purpose, La Salle also offers Master's programs in selected areas of specialization. For the most part, these programs focus on professional goals through advanced study and through application of theoretical knowledge in the fields represented.

As a private Catholic university, La Salle pursues these aims in a religiously diverse com-

munity of teachers and students interested in studying secular subjects in their autonomy, undertaking religious studies in a systematic way, and investigating what interrelations these subjects may have. The community also engages in programs in which the students' personal, social, and religious values may take root and in which the students may grow in mature attitudes and behavior in all human relationships. The ultimate hope of the University is that its graduates will be ready for informed service and progressive leadership in their communities and will be able to fulfill the immediate and final goals of their lives.



General Reference



Admissions

If a student is well-motivated toward a college career and can show evidence of academic achievement and ability, the Admissions Committee will welcome an application. In arriving at its decision, the Committee studies the high school record, test scores, and recommendations from high school faculty, guidance counselor, and principal. Each applicant is given personal consideration. La Salle does not discriminate against any applicant for admission because of race, color, creed, sex, national origin, or physical handicap. Admission is based solely upon an applicant's qualifications and ability to meet the established admission requirements.

APPLYING FOR ADMISSION

The Committee on Admissions will consider a qualified applicant for acceptance any time after completion of the junior year. The following credentials are required for evaluation:

1. A completed application to La Salle University.
2. A transcript of three-year high school scholastic and personality records.
3. The results of the College Board Scholastic Aptitude Test or of the American College Testing Program.

The successful applicant must graduate from high school with creditable grades.

An interested student is encouraged to arrange for a campus visit, which might include a personal interview and tour. Phone 215-951-1500.

In exceptional cases, students may be admitted after completion of the junior year on the recommendation of their high school counselor and evidence of superior achievement.

Applicants may secure application materials from the Office of Admissions. These materials include a form which is to be mailed directly to the University by the high school. Completed applications and the \$20.00 application fee should be sent to the Office of Admissions. The Director of Admissions will notify applicants as soon as possible after a decision has been made. If accepted, a student is asked to forward a \$100.00 deposit, usually within three months of acceptance. This deposit will be applied to first semester expenses; the entire deposit is forfeited if an applicant chooses not to attend La Salle.

ADMISSION REQUIREMENTS

HIGH SCHOOL UNITS

Your record should show successful completion of at least 16 units of high school work, including the following:

English	4 units
Mathematics:	
Must include at least	
two years of Algebra	3 units
History	1 unit
Natural Science	1 unit
Foreign Language	<u>2 units</u>
	11 units

The remaining five units may be distributed as follows:

1. Applicants for the *Liberal Arts* program may present five other units in academic subjects.
2. Applicants for the *Science, Mathematics, or Computer Science* programs may present five other units in academic subjects but including an additional one-half unit in mathematics.
3. Applicants for the *School of Business Administration* may present five academic or commercial units, excluding typing.

LANGUAGE REQUIREMENTS

All applicants should present two units in the same foreign language.

ENTRANCE EXAMINATIONS

Applicants to the freshman class are required to take either the American College Testing Program or the Scholastic Aptitude Tests given by the College Entrance Examination Board. These tests should be taken no later than January (SAT) or February (ACT) of the senior year. Arrangements may be made through your high school counselor or by writing, six weeks before the test date, to either:

CEEB—The Educational Testing Service, Box 592, Princeton, NJ 08540 or Box 1025, Berkeley, Calif. 94701

OR

ACT—The American College Testing Program Box 451, Iowa City, Iowa 52240

La Salle University's identification number: CEEB-2363; ACT-3608

ACHIEVEMENT TESTS

The CEEB Achievement Tests are not required. These tests are helpful to departmental advisors,

Admissions

however, in determining placement in certain English, mathematics, and foreign language courses. They are recommended, therefore, to students who:

1. wish to apply for a waiver of the freshman composition requirement;
2. desire immediate placement in a calculus course;
3. plan to continue study of a language in college after having completed at least two years of that language in high school.

MEDICAL RECORDS

All accepted students are required to have a report of medical history on file in the Dispensary prior to their attendance at the University.

FOREIGN STUDENT ADMISSIONS

La Salle University is authorized by the Department of Justice, Immigration and Naturalization Service to issue Certificates of Eligibility (Form I-20) for non-immigrant "F-1" student status, to foreign students who meet admissions requirements. Preliminary application materials are available from the Coordinator of Foreign Admissions, La Salle University, Philadelphia, PA 19141.

ADVANCED PLACEMENT

La Salle University participates in the Advanced Placement Program of the College Entrance Examination Board. Consequently, the University agrees to give credit and/or advanced placement to students who perform satisfactorily both in college-level courses taken in secondary school and in the advanced placement examinations administered by the Board. The equivalents for the grading scale are:

- 5 or 4 = Advanced credit and advanced placement.
- 3 = Same, on recommendation of departmental head.
- 2 = Advanced placement only on recommendation.
- 1 = No advanced placement or advanced credit.

La Salle University also participates in the College-Level Examination Program of the College Entrance Examination Board. Students who wish to be considered for advanced credit through this program should write for information to the College-Level Examination Program, Educational Testing Service, Box 977, Princeton, NJ 08540.

TRANSFER STUDENTS

La Salle University welcomes qualified transfer students to the Fall and Spring terms and to the Summer Sessions. Candidates for admission from colleges which offer courses of study similar to those of La Salle University should submit transcripts of their college records as soon after applying for admission as is possible. All except A.A. and A.S. degree holders are required to submit their high school transcripts also. Transfer students should submit the results of College Entrance Examination Board tests or of the American College Testing Program, if available. A letter of appraisal from the Dean of Students of the college or university attended is requested in most cases.

All of these records should be in the Admissions Office at least 30 days before the beginning of the semester for which the student is applying. This interval is suggested to provide ample time to process the application, to evaluate transcripts, and to arrange a pre-registration interview.

The previous college record of the applicant must indicate good academic standing. Students applying for transfer from a fully accredited college or university will be considered for admission if their grade point average is 2.25 (on a 4.00 scale), but a 2.50 or higher is preferred. Transfer applicants from colleges which have applied for regional accreditation will be considered if their grade point average is 2.75 or higher (on a 4.00 scale). The decision on each application is based mainly on the grade point average earned at the college or university the student attended before applying to La Salle.

Credit will be allowed for courses completed at the institution from which the applicant is transferring if they have a quality point value equivalent to or above the La Salle C grade (2.00). Normally, 70 credits may be accepted for transfer.

Transfer students may be required to make up certain courses which belong to the sequence required in the program of studies for which they are applying.

Interested prospective students should direct their inquiries to the Assistant Director of Admissions for Transfer Students.

ACADEMIC DISCOVERY PROGRAM (ADP)

The Academic Discovery Program (Pennsylvania ACT 101) is a special program which provides free support services for students whose records indicate that they could benefit from extra academic assistance and who also meet certain criteria of financial need. The ADP helps students to develop good study habits, establish clear career goals, and compete successfully in the academic setting. Students who are selected to participate in the ADP must attend a free pre-college summer program before their freshman year, taking courses in mathematics, composition, study skills, and critical thinking. During the academic year, students take courses from the standard curriculum, but are assigned counselors, tutors, and an academic advisor to support them in their efforts. As much as possible, each student's program is tailored to his or her individual needs. To obtain application materials, write or call the Day Admissions Office, 215-951-1500. For further information regarding the ADP or the Community Academic Opportunity Program Grant, call the ADP Office, 215-951-1084.

ADMISSIONS FOR VETERANS

All veterans coming directly from the service with proof of a high school diploma or its equivalent are eligible to enroll as students at La Salle University. For answers to specific questions, veterans may telephone the Registrar's Office, 215-951-1020.

CONTINUING EDUCATION FOR WOMEN

The Continuing Education for Women (CEW) program at La Salle is designed to ease the transition for adult women who wish to begin or resume their college education. Women may enter this program in the Day or Evening Division whether they are interested in taking single courses or pursuing a degree. Any woman 24 years or older who has a high school diploma or equivalent is eligible to apply.

CEW has been both a popular and a successful educational program at La Salle, and perhaps the main reason for this is the counseling, direction, and sense of community that it provides. Students are invited to orientation programs which focus on study skills and other "survival techniques" for succeeding at the University and to

workshops which are held on various topics of interest, academic and otherwise. Besides being informative, orientation programs and workshops bring CEW students together, creating an informal network or community for support. After successfully completing 15 credits of academic coursework, the "transition" to La Salle has been accomplished and students transfer out of the CEW program.

To arrange an interview or to apply for admission through the program, visit the CEW office, located on the first floor of College Hall, or telephone 215-951-1060.

COURSE SELECTION

All accepted students will receive a course selection form in the mail in early April. At this time they may indicate their choice of courses for both Fall and Spring terms. Additional academic counseling is available to freshmen during the Pre-College Counseling Program in the summer.



Campus Services

ACCOMMODATIONS FOR RESIDENTS

The residence facilities accommodate almost 1600 students and consist of 10 coeducational halls, two apartment complexes, and one townhouse complex. The dormitory-style residence halls contain single and double rooms which share one bathroom on each floor of men or women. Quad rooms in St. Katharine Hall consist of adjoining double rooms which share a bathroom. One- or two-bedroom garden apartments and four-bedroom townhouses are available to upper division students.

An application for housing and the required security deposit should be submitted when confirming acceptance. The Resident Life Office will then inform the student of the application's status. If a space is reserved, and the student decides after May 1 not to live on campus, the entire security deposit is forfeited.

The residence halls provide complete living, learning, and recreation facilities. Each room is completely furnished except for bed linens. There are lounges, quiet study areas, recreation areas, and coin-operated laundry and vending machines. The Campus Store is a convenient shopping center for books, stationery, and personal supplies. Residents are permitted to have cars on campus. More detailed information on resident life and facilities can be found in *You've Got a Lot to Live: The Resident Student Guidebook*, published by the Resident Life Office.

The resident life administration is headed by a staff of trained professionals. Resident Assistants reside in each living unit and serve as counselors, administrators, and activity programmers. The graduate and undergraduate staff receive room and board compensation and are an outgoing and diversified group who are interested in working with students to make college life in residence an enjoyable and educational experience.

Both the residence and dining facilities are closed during the Thanksgiving, Christmas, and Spring recesses.

For further information about resident life, contact the Resident Life Office, North Halls Complex, Telephone 215-951-1550.

OFF-CAMPUS HOUSING

In order to assist members of La Salle in locating available housing in the surrounding community, help is available through the Off-Campus

Housing Service. The Service provides: off-campus housing referral listings; roommate referral lists; and general off-campus rental information (tenant-landlord relations, roommate selection, consumer protection, neighborhood business and services, etc.).

La Salle University does not inspect available accommodations nor screen prospective landlords and tenants. Any questions pertaining to off-campus housing should be directed to Off-Campus Housing, Resident Life Office, North Halls Complex, Telephone 215-951-1550.

FOOD SERVICES

The Food Services Department offers a variety of nutritious items in the two cafeterias it operates on campus. At La Salle a residence hall student may select from one of the three a la carte meal plans available. The a la carte plan is probably unlike other university food service plans that you are familiar with. Instead of offering a specified number of meals to be eaten within a week, the a la carte meal plan allocates a weekly dollar credit to each participant. You use this credit to purchase menu items during breakfast, lunch, or dinner. Each plan provides you with a balance that can be used throughout the entire credit week. Choice of a meal plan is usually based upon your eating habits as well as the number of days per week you anticipate eating on campus.

The most recent innovation in Food Services is a contemporary dining area called *Intermissions* and an adjoining entertainment room known as *Backstage*. In these comfortable settings you can unwind and exchange ideas and enjoy the entertainment until the late hours. *Intermissions* serves lunch daily, and both rooms are open in the evening for late night snacks and entertainment.

STUDENT HEALTH SERVICES

The La Salle University Dispensary provides medical diagnosis and treatment of minor illnesses and injuries and is available to the student body for initial care, first aid, and health information. Located in the North Complex of the Residence Halls on Olney Avenue, directly across from Hayman Hall, it is open Monday through Friday.

The Dispensary is staffed by a registered nurse who serves as the Director. University physicians

Campus Services

see students in the Staff Clinic of Germantown Hospital five days a week, and a physician is available in the Dispensary weekly. The Clinic is located on the first floor of the hospital, and referrals to the clinic are made by the nurse from the Dispensary. All students are required to complete the Student Health Services-Health Questionnaire prior to their attendance at the University.

Both medical and dental emergency services have been arranged with local hospitals, and a complete list of private physicians of every medical speciality is also available. Students are responsible for the costs of these treatments.

Health insurance is strongly advised for all students, especially those in residence, and is required for all international students. Students who are under 23 years of age generally can be covered under their family Blue Cross (Hospital Insurance) and Blue Shield (Medical-Surgical Insurance) program while enrolled as full-time college students. Information concerning special Students' Blue Cross and Blue Shield plans for those not covered by family plans is available.

THE LIBRARY

The Connelly Library was dedicated in March 1988 and opened its doors to La Salle students, faculty, and staff in August of that year. With shelving for 500,000 volumes, seating for over 1,000 people, and a fully automated catalog, the library offers a combination of traditional library services and the latest in information technology. The new building provides not only attractive study spaces but also several new departments and features, including Media Services (videotapes and cassettes), Special Collections, personal computers, and a student lounge with vending machines and lockers. The library presently has more than 300,000 volumes, 1,400 current periodical subscriptions, and information in electronic formats.

Reference Librarians are available most hours that the library is open to offer assistance with the collection and to provide group and individualized instruction for research projects. Subject-specific library instruction is given in many courses. Librarians can also assist users with the several hundred electronic databases available through dial-up access to vendors such as Dow Jones News Retrieval, or locally on compact disc.

The Special Collections Department houses noteworthy collections of books and manuscripts in various subject areas. Of particular significance is a collection on *The Vietnam War: Imaginative Literature and Its Vision*. Others of interest to scholars include *The Literary Experience of Conversion: Roman Catholicism and Interpretation*, *19th-Century Ornamental Gardening*, *The Japanese Tea Ceremony*, and a number of unique holdings of the works of major authors.

La Salle students and faculty can take advantage of the resources of other libraries throughout the United States by using the Inter-library Loan Service. Librarians can assist users with locating materials in other libraries and can obtain books and photocopies of journal articles on loan; a telefax machine speeds transmittal of urgently needed materials. Through a cooperative borrowing agreement with over 30 local libraries, students and faculty can also directly borrow materials from other academic institutions in the greater Philadelphia area.

BUILDING BLOCKS: CHILD DEVELOPMENT CENTER

Established in 1973 by a group of La Salle faculty, students, and staff, Building Blocks is a privately incorporated day care center housed on La Salle's campus. Serving the immediate La Salle community and our neighbors beyond the campus, the center cares for some 50 children whose ages range from 18 months to 6 years. The trained professionals at Building Blocks also supervise work study students, volunteers, and students who fulfill certain course assignments through projects at the center. Interested parents should telephone the Director at 215-951-1573.

Expenses

	Per Semester
Basic tuition	\$4,100.00
Additional for science majors (biology, chemistry, physics, geology)	90.00
Tuition—for courses taken in excess of or less than a normal schedule—per semester hour	295.00
Science Laboratory Fee—charged non-science majors electing to roster certain designated science courses—per course	45.00
Communications Fee—charged for certain designated courses—per course	45.00
Computer Fee—charged for designated computer science courses—per course	30.00
Counseling and Orientation Fee—charged to entering students in their first semester only	50.00
Administrative Fee—charged to students who elect to receive credit through authorized standardized testing procedures or approved in-house tests—per course	45.00
Registration fee	25.00
Housing Cost (per student) ¹	
Residence Halls ²	
Single Room Rent	1,350.00
Double Room Rent	1,175.00
Triple Room Rent	975.00
Quad Room Rent	1,275.00
Apartments	1,350.00
Townhouses	1,450.00
Residence Hall Orientation Fee—charged in first semester only	25.00
Meal Plans	
Plan A—allows approximately \$7.50 per day	785.00
Plan B—allows approximately \$9.55 per day	955.00
Plan C—allows approximately \$11.80 per day	\$1,180.00

¹ The housing contract is a commitment for both Fall and Spring semesters.

² Students living in the residence halls are required to participate in one of the above meal plans.

In view of rising costs, La Salle University must reserve the right to amend or add to the charges at any time and to make such changes applicable to students presently enrolled as well as to new students.

DEFERRED PAYMENT

If you do not have the entire amount you need to register for the Fall or Spring semester, you can choose the Deferred Payment Plan, which allows you to spread out your payments in three monthly installments throughout the semester. For a \$15.00 application fee and a small finance charge, you can defer payment on as much as 75% of your educational expenses (or as little as \$250.00 if that's all you need). To find out more information or to obtain your application, contact the Student Loan Office, 215-951-1054.

MONTHLY PAYMENT PLAN

In cooperation with Academic Management Services, La Salle offers a monthly payment plan designed to relieve the pressure of "lump-sum"

payments each semester. This plan allows you to spread the cost over a period of months without borrowing money or paying interest charges. Automatic life insurance is provided at no charge. The enrollment fee is \$45 a year for each enrolled student; there are no other charges. There is no down payment if you enroll in the plan *before April 25*.

Please contact the Bursar's Office if you would like to receive an explanatory brochure and application.

SEMESTER INVOICES

Full payment of semester invoices is due in mid-August for the Fall term and in mid-December for the Spring term. Students who have not paid in full within the prescribed time are not

Expenses

registered, nor are they included on official class lists.

MasterCard and VISA may be used for payment of invoices.

REFUND OF TUITION

Under certain circumstances, students who withdraw may receive a partial refund of tuition. There are no exceptions to the following terms and conditions.

Fall and Spring Undergraduate Semesters

Time of Withdrawal	Refund
Before first day of class	100%
During first week	80%
During second week	60%
During third week	40%
During fourth week	20%
After fourth week	None

For the purpose of refund, the student shall be considered to be in continuous attendance up to and including the date of submission of proper notice of withdrawal. The notice of withdrawal must be addressed to the Dean of the particular school. Ceasing to attend or giving notice to an instructor does not constitute proper notice. The allowed percentage of refund shall be based upon the official withdrawal date, which shall be determined by the date the notice of withdrawal is received by the Dean, or the postmark, if mailed.

For the purpose of refund computation, a week shall be defined as the period of seven successive days beginning with the official University opening of classes and NOT the first day in actual attendance by a particular student.

In those instances where a student's educational expenses were satisfied in whole or in part by Title IV Program Funds, and a refund of these educational expenses is authorized, that refund will be proportioned in accordance with U.S. Department of Education regulations governing refunds and cash disbursements made directly to students. Under those regulations, priority is given to the return of funds to Title IV Assistance Programs in the following order: State Grant Programs, SEOG, NDSL, Pell Grants, Guaranteed Student Loans. Students should be aware that the regulations may prevent the refund of any personal funds used for payment of tuition and fees. In instances where a student has received a cash disbursement prior to the recording of his or her withdrawal, the student may be required to return those funds to the University.

ROOM AND BOARD REFUND POLICY

MEAL PLAN

If a student leaves the Residence Halls, a pro-rata refund will be made for the unused portion of his or her meal plan upon return of the meal card to the Food Service.

ROOM RENT

Regardless of the reason for vacating, refunds will not be made for unused rent.



Financial Aid

Since the primary responsibility for college expenses rests with parents and students, financial assistance is normally granted on the basis of financial need together with demonstrated and potential academic achievement. The information below lists sources of aid available to students attending La Salle and the method of application.

CHRISTIAN BROTHERS' SCHOLARSHIPS

La Salle University offers 15 full tuition scholarships to students graduating from all Catholic high schools in the Philadelphia and Camden dioceses and from high schools conducted by the Christian Brothers of the Baltimore Province. Selection is based on academic excellence and potential for leadership in the La Salle community. Applications are restricted to students nominated by their high school principal. Scholarship application forms will be sent directly to nominees designated by the principals. All completed scholarship materials must be received by the appropriate office at La Salle no later than January 31.

COMPETITIVE SCHOLARSHIPS

At least 30 full and partial tuition scholarships are offered annually to high school seniors who have demonstrated exceptional academic aptitude and achievement. This scholarship competition is open to high school seniors who have scored approximately 1300 in the College Board Scholastic Aptitude Test and who have a class rank in the top 10 or top 10% of the high school graduating class. Application materials may be obtained by contacting the Director of the Honors Program. The completed scholarship materials must be received by the appropriate office at La Salle no later than January 31.

NATIONAL MERIT GRANTS AND SCHOLARSHIPS

Students selected as National Merit finalists, semi-finalists, and letter of commendation recipients are eligible for grants through the University. Finalists qualify for \$800 per academic year, semi-finalists receive \$600 per academic year, and commendation recipients are granted \$300 per year. These grants are applicable to tuition charges and are renewed yearly pending completion of the Pennsylvania State Grant and Federal Student Aid Application.

La Salle University annually offers two National Merit Scholarships ranging from \$300 to \$2000 per academic year. Students are selected by National Merit Scholarship Corporation from those qualifying in the College Boards and indicating La Salle University as the first choice institution.

CHRISTIAN BROTHERS' GRANTS

Grants funded by the Christian Brothers are awarded to students who have graduated from Catholic high schools. Awards are made on the basis of academic merit and financial need as determined through a needs analysis system (e.g., PHEAA or FAF). These awards are renewable, provided the student maintains a 2.5 cumulative average and continues to show financial need.

LA SALLE UNIVERSITY GRANT

As a reflection of its dedication to providing financial aid to students on the basis of financial need, the University has established the La Salle University Grant program. Awards from this grant are made to students based solely on their financial need as determined through either completion of the FAF or PHEAA application.

In order to assist students who choose to commute, a number of the La Salle University Grants will be reserved for those individuals. As with the Christian Brothers' Grants, recipients will be selected on the basis of academic merit and financial need. Awards are renewable, provided the student maintains a 2.5 cumulative average, continues to show financial need, and remains a commuter.

ATHLETIC GRANTS

La Salle University offers grants to men and women excelling in athletics. Contact with the La Salle University Athletic Department is made by the student's high school coach. These grants can be maintained through the four years of study at La Salle University.

COMMUNITY ACADEMIC OPPORTUNITY PROGRAM (CAOP)

The Community Academic Opportunity Program is a grant available to students who have been accepted into the Academic Discovery Program. It is designed to give financial assistance to

Financial Aid

minority students who are residents of Philadelphia.

The amount of the grant will be equal to the difference between the total of tuition and fees minus all gift aid which the student is eligible to receive; i.e., Pell and PHEAA grants as well as private aid. In addition, the student will receive up to \$400 per academic year for books and supplies.

PELL GRANTS

The Pell program is a federally administered program available to needy students taking no fewer than six credits per term. Students may receive up to \$2300 per academic year. Applications are available from your high school guidance counselor or the La Salle Financial Aid Office. Eligibility is determined by the federal government and notification is sent directly to students. In addition to financial need, a student must make normal progress toward a degree to retain eligibility.

PENNSYLVANIA HIGHER EDUCATION GRANTS (PHEAA) AND OTHER STATE GRANT PROGRAMS

Pennsylvania state grants are administered by Pennsylvania Higher Education Assistance Agency and range from \$100 to \$2000. Eligible students must demonstrate financial need, maintain Pennsylvania residency, be enrolled on a full-time basis, and complete a minimum of 24 credits per year. Applications are available from high school guidance counselors or the Financial Aid Office.

Other states in addition to Pennsylvania have scholarship programs for their residents. Information and applications are available from the respective State Boards of Education.

PERKINS LOANS

The Perkins Loan provides needy students with long-term, low interest loans for educational expenses. The University determines the amount of the loan to be offered within certain federal guidelines. Interest at the rate of 5% per year on the unpaid balance begins to accrue after the student ceases at least half-time study. The loan repayment period may be as long as ten years, depending upon the total amount borrowed. Students must make normal progress toward a degree to maintain eligibility.

COLLEGE WORK STUDY PROGRAM

The College Work Study program provides needy students with access to part-time jobs in both on- and off-campus locations. The funds earned do not provide direct tuition relief, but are intended to help meet incidental expenses encountered by students. Students are paid on a weekly basis for the number of hours worked. The total amount that may be earned through the work program is determined by students' needs and availability of funds at the University. Employment is limited to an average of 20 hours per week while school is in session. In addition to demonstrating need, students must make normal progress toward a degree to maintain eligibility.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)

The SEOG program is a federally funded college administered program available to needy students in amounts up to \$2000 per academic year. La Salle University requires submission of the application for Pennsylvania State Grant and Federal Student Aid for eligibility evaluation. In addition to financial need, students must make normal progress toward a degree to retain eligibility.

STAFFORD STUDENT LOAN (SSL)

Formerly known as the Guaranteed Student Loan, this program is administered by state and private agencies with the assistance of participating lending institutions. Students enrolled on at least a half-time basis and making normal progress toward a degree may apply to this program. The yearly limits are: \$2625/year for the student's freshman and sophomore years and \$4000/year for the junior and senior years. The current interest rate is 8%. Repayment begins six months after the student ceases half-time enrollment.

PARENT LOANS FOR UNDERGRADUATE STUDENTS (PLUS)

This program allows parents to borrow a maximum of \$4000 an academic year for each dependent undergraduate student. The interest rate is 12% and repayment begins 60 days after the disbursement of funds. Independent undergraduate

Financial Aid

students may also borrow from the PLUS program. However, these students may not borrow more than a combined total of \$4000 from both the PLUS and Guaranteed Student Loan programs. Contact local banks regarding program participation.

ARMY ROTC SCHOLARSHIPS

Army ROTC scholarships are offered for four, three, and two years. The four-year scholarships are awarded on a worldwide competitive basis to U.S. citizens who will be entering college as freshmen. The three- and two-year scholarships are awarded competitively to students who are enrolled or are eligible for advanced placement in ROTC, including those who are cross-enrolled.

Students who attend the Basic Camp of the two-year program may also compete for two-year scholarships.

The scholarships pay for most tuition, book fees and lab fees, and provide a living allowance of up to \$1000 each year the scholarship is in effect. The value of the scholarship depends on the tuition and other educational costs of the university or college attended.

Contact the Department of Military Science, 215-951-1365/1366, for further information.

PRIVATE SCHOLARSHIPS

There are many special assistance programs that offer scholarships, grants, and loans to students. You may qualify for one of these programs through religious affiliation, ethnic heritage, parents' employers, organizational memberships, or a special talent. Programs through state and/or federal agencies—e.g., Veterans' Bureau, Bureau of Vocation Rehabilitation, and Social Security Bureau—may also offer financial aid to qualified students. Knowledge of these programs is available through books and pamphlets on scholarships and financial aid in your school or local library or in the Financial Aid Office.

Information on private scholarships frequently received by La Salle students may be obtained from the following sources:

Alumni Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Berger-Wallace Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

James J. Binns Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

John F. Byrne Memorial Scholarship Award
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Robert J. Chesco Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Lt. John H. Condon Memorial Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Bishop Corrigan Memorial Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Robert L. Dean Writing Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Michael A. DeAngelis Memorial Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Brother Claude Demitras, F.S.C., Ph.D. Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Anna H. and Henry J. Donaghy Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

John and Kamila Feltowicz Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Financial Aid

James A. Finnegan Public Service Fellowship
Chairman, Political Science Department
La Salle University
Philadelphia, PA 19141

Hero Scholarship
City of Philadelphia, Room 490, City Hall
Philadelphia, PA 19107

Maurice and Sara Land Foundation Scholarships
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Lindback Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Merrill Trust Fund
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Charlotte W. Newcombe Foundation Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Philadelphia City Scholarship Program
516 City Hall Annex
Philadelphia, PA 19107

J. Wood Platt Caddie Scholarship
c/o Cecil J. Barnett, Esq.
20 Bala Avenue
Bala-Cynwyd, PA 19004

Joseph Lawrence Scheiter Memorial Fund
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

W. W. Smith Charitable Trust Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Lillian and Ralph Tekel Scholarship
Director of Financial Aid
La Salle University
Philadelphia, PA 19141

Air Force ROTC Scholarships, AFROTC Det 750,
St. Joseph's University
Philadelphia, PA 19131

APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE

Incoming students who are residents of Pennsylvania must file the Pennsylvania State Grant and Federal Student Aid (PHEAA) Application. Residents of a state other than Pennsylvania may file either the PHEAA form or the Financial Aid Form (FAF). Regardless of which form you complete, you must file by February 15th in order to be considered an on-time applicant. Returning students (sophomore, junior, or senior) must complete the Pennsylvania State Grant and Federal Student Aid (PHEAA) Application AND an Institutional Aid Application. These forms will either be sent directly to the student's home sometime in December or may be obtained by contacting the Financial Aid Office. The Deadline for applications to be received is March 15th.

La Salle University's financial aid programs are organized to help the able student who needs financial assistance. As long as there is continuing evidence of academic progress, as well as financial need, the University will make every effort to assist the student.



Programs & Procedures

REGISTRATION

During an announced pre-registration period in the Spring term, students meet with their Chair or advisor to plan a roster of courses for the upcoming year. On the basis of this pre-registration, the Registrar's Office publishes a Master Roster listing courses, times scheduled, and teachers assigned. The student then chooses a course section, time, and teacher. The Business Office will bill the student in August and December for the courses chosen, completing the registration process.

Students who have not completed mail registration will register on campus during the week before classes begin.

If students cannot register during this period because of circumstances beyond their control, they may complete registration during the first two days of classes.

Late registration is permitted only in the most unusual circumstances and requires the permission of the dean of the school and the payment of a fee of \$10.00.

CLASSIFICATION OF STUDENTS

A full-time student carries a *minimum* of 12 semester credit hours; many carry an average of 15 semester credit hours. A student's program may require more hours per week in some areas of instruction.

Class level is determined by the number of credit hours earned by the student. Students having 0 to 23 credit hours are considered freshmen; those who have earned 24 to 53 credits are sophomores; those having 54 to 83 hours are juniors; and those with more than 84 credit hours are classified as seniors.

Part-time students carry a roster of less than 12 hours per week. Students in this category will require more than the normal four years in which to earn a degree.

Students who do not fulfill certain admission requirements may be admitted to follow particular courses, and are considered as special students. They do not register for a degree granting program. Credits earned by a special student may be counted towards a degree as soon as he or she has met all the requirements for admission and candidacy for a degree provided that the credits thus earned are applicable to the program of studies. A special student cannot hold a

scholarship nor take part in extracurricular activities.

PROGRAM OF STUDIES

The program of studies prescribed by the student's advisor and approved by the dean of the school in which the student is enrolled is his or her official roster of courses.

It is the student's responsibility to see that all the requirements of this program are fulfilled. He or she should have in writing from the dean any exceptions to the prescribed program which may be granted.

Students may be permitted to change from one program to another, or from one area of instruction to another, only when their previous record indicates that they may profit by such a change. In any change of this type the student must have the written permission of the Chair and the dean of the school. This change may entail taking approved summer courses or an additional semester in college. In no case may students who transfer receive promotion or a degree sooner than they would have received it had they not transferred. No degree may be received less than one year after change of curriculum.

DUAL MAJORS

In some circumstances, a student with special needs and abilities may be permitted to major in two departments or to follow a special inter-departmental program. After developing the program in consultation with both departments, the student must obtain approvals of both Chairs and of the dean. Arrangements should normally be completed during the Spring semester of the sophomore year.

MINORS

In addition to their majors, students may also complete up to two minors. These minors will be officially noted on the transcript. Minors may be constructed in these subjects: accounting, art history, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, and sociology. These minors require six courses within the discipline, not counting foundation courses. Students interested in minoring in a subject should

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consult with the Chair of that department for advice on the requirements.

Special minors may also be taken in these areas: General Business, Health Care Administration, International Studies, Risk Management and Insurance, Urban Studies, and Women's Studies. The requirements are listed in their proper alphabetical place in the Course Requirements section of this *Bulletin*.

URBAN STUDIES

Students may design a minor concentration by choosing requirements and electives in Urban Studies. The Economics Department supervises this program but it is multi-discipline in all essentials. At all levels, students and faculty work closely with the staff of the La Salle Urban Studies and Community Services Center.

INTERNATIONAL STUDIES MINOR

Any student, regardless of his or her major field, can pursue as an interest the Minor in International Studies. This multi-discipline program allows the student to select courses offered by many departments.

The Minor in International Studies requires a total of six courses. At least three of these can also fulfill other university requirements.

Economics, Political Science, and Business students will have to use only two or three electives in order to complete the program. Other students will have to devote about four elective courses for this purpose.

Students planning to spend one or two semesters abroad will probably be able to complete a portion of the program there and should meet with the Director before departing.

Interested students should see Dr. Joshua Buch, the Program Director, College Hall 314, ext. 1030.

WOMEN'S STUDIES MINOR

The interdisciplinary Women's Studies Minor provides a contrast and balance to the traditional curriculum by putting women, their accomplishments and contributions, and traditional sex roles at the center of study. By choosing six courses from the interdisciplinary offerings, women and men students of any major may design a minor that complements their major. Courses are offered in the disciplines of communication,

criminal justice, economics, English, foreign languages, history, nursing, philosophy, physics, psychology, religion, and sociology. A field internship or independent study may constitute one of the six required courses.

Interested students should see Prof. Patty Coleman, Coordinator, Olney Hall 336, ext. 1114.

HONORS PROGRAM

The Honors Program provides the most academically talented students with an enriched program of general studies that will be both challenging and stimulating.

The freshman honors student, as an apprentice in the program, studies in honors sections of two or three required courses. Students who prove themselves able and interested continue with honors courses in such areas as religion, philosophy, and English, which offer more depth and more advanced reading. In the upper division, such courses will frequently be given by distinguished visiting professors. In the last two years, the honors student may, with the approval of the Honors Program Director, substitute an independent study course for any regularly scheduled course except religion or seminar. Class meetings in these courses are less frequent, and emphasis is on individual reading and research. Students who complete the requirements of the Honors Program are graduated with General University Honors.

Further information on the program is available from the Director of the Honors Program.

THE WRITING FELLOWS PROGRAM

The Writing Fellows Program offers a unique opportunity for good student writers to serve as undergraduate peer tutors in writing in courses throughout the University. Students selected to be Writing Fellows receive special training. Interested students should see Dr. Margot Soven, Program Coordinator, Olney Hall 140, ext. 1148.

COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program permits students to integrate classroom theory with practical experience by alternating specific periods of attendance at the University with specific periods of employment.

A student may begin a co-op program as early as the sophomore year and still complete require-

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ments for graduation within four and a half years. Cooperative education can add relevance to a student's academic program, furnish practical experience, afford an understanding of human relationships outside of one's peer group, and provide realistic vocational information as well as financial assistance.

Students interested in learning more about this program should see the Cooperative Education Coordinator in the Career Planning and Placement Office.

LA SALLE IN EUROPE—FRIBOURG, SWITZERLAND

Recognizing the advantages of travel in other countries and first-hand contact with other cultures, La Salle University offers a sophomore and junior year program which provides its students a first-hand opportunity to study at the University of Fribourg in Switzerland. Nestled in the valley of the Sarine, Fribourg is one of the most beautiful cities in one of the most beautiful countries in the world.

A unique feature of the University of Fribourg is its official bi-lingual character; courses are offered in both French and German, often the same course in either language. In conjunction with Providence College, La Salle University forms part of the American College Program of the University of Fribourg.

In most instances, students will be housed in private homes or apartments located near the university. The rooms are chosen by the resident director of the program. Those students deficient in French or German will be permitted to enroll in special courses during the summer before departure. A 2.5 Grade Point Average is required. Interested students should see Dr. Bernhardt Blumenthal, Director of the La Salle in Europe program.

SPANISH LANGUAGE PROGRAM—UNIVERSITY OF MADRID

La Salle University is a member of the Academic Year Abroad Foundation, which is affiliated with the University of Madrid, Spain. This program is for one semester or a full year. Courses are offered in the language, literature, history, and art of Spain. In addition there is a special program for business students. Par-

ticipants are placed with Spanish families. Meals are taken at the place of residence.

The principal aims of the program are:

1. To help the student achieve fluency in the spoken and written language.
2. To give the student the opportunity to experience and understand the nature of Spanish society and institutions through constant and direct exposure to the nation's history, art, and contemporary life.
3. To prepare the future teacher of Spanish for the role which he or she will play in the classroom situation.

Interested students should see Dr. Leonard Brownstein, Professor of Spanish.

NURSES' COOPERATIVE PROGRAM

La Salle participates in a cooperative program with a number of area hospitals in teaching the basic sciences to the students from these hospital schools. The essential program remains under the control of the parent schools. These students receive college credit for those courses attended at La Salle.

URBAN STUDIES AND COMMUNITY SERVICES CENTER

The Urban Studies Center seeks to involve the resources of the University in the larger urban community. Its major programs are: (1) the Communiversity—non-credit adult education designed for area residents, (2) technical assistance to neighborhood groups in grant and program development, and (3) community organization services focused on the needs of the low-income, multi-racial and ethnic communities bordering the University. The Center also draws upon the experience of neighborhood leaders to enrich its programs and La Salle's Urban Studies curriculum. Students and faculty with urban research and social service interests are encouraged to contact the Center at 215-951-1188.

COURSES AT CHESTNUT HILL COLLEGE

The cooperation of La Salle with Chestnut Hill College, a Catholic college for women situated about five miles from La Salle, results in a valuable coordination of programs. Students from either of the associated colleges can register for courses at the other college, with full credits, and without the payment of extra tuition. The calen-

Programs & Procedures

dar for the academic year in both colleges is identical. Students wishing to register for courses offered at Chestnut Hill will follow the same procedure as when they register for courses at La Salle. Classes at Chestnut Hill begin on the hour, at La Salle on the half-hour.

Students interested in preparing for elementary education may take part in a special cooperative program with Chestnut Hill College, which may be arranged in consultation with the Dean of the School of Arts and Sciences.

SUMMER SESSIONS

A variety of courses are offered in both day and evening sessions during the summer. Students may use these courses to enrich their academic programs, to lighten their regular schedules, to make up failures, or, in some instances, to accelerate progress toward a degree. The Summer Sessions are administered by the Dean of the Evening Division.

Properly qualified applicants from other accredited institutions are also admitted to the Summer Sessions.

ARMY RESERVE OFFICERS' TRAINING CORPS PROGRAM (ROTC)

Students get leadership and management training in the military science program—and they graduate with an officer's commission as well as a degree in their chosen academic major. Successful completion of the advanced ROTC program results in second lieutenant status in the active or reserve components of the U.S. Army.

Students (male and female) may participate in the ROTC program at La Salle by so specifying on their course selection form. No service obligation is incurred during the first two years of the program. Military Science 100- and 200-level courses are tuition free to full-time students. See course descriptions, listed under Military Science.

Students who successfully complete both MSC 100- and 200-level courses may be chosen for the advanced course. Advanced course and ROTC Scholarship recipients also earn a monthly stipend of \$100.00. (See Financial Aid section for more information on the ROTC Scholarship Program.)

Students transferring to La Salle, or current students who have not previously participated in ROTC, may take advantage of the special two-

year program. They should make arrangements through the Department of Military Science as soon as possible.

Additional information is available from the Department of Military Science, La Salle University, Philadelphia, PA 19141, (215) 951-1365.

AIR FORCE RESERVE OFFICERS' TRAINING CORPS

La Salle students are eligible to participate in Air Force Reserve Officers' Training Corps (AFROTC) through a cross-enrollment agreement with St. Joseph's University.

All Aerospace Studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for a baccalaureate degree.

For further information on the cross-enrollment program, scholarships, and career opportunities, write or telephone the Professor of Aerospace Studies, AFROTC Det750, St. Joseph's University, Philadelphia, PA 19131, (215) 879-7311.

NAVAL RESERVE OFFICERS' TRAINING CORPS

Through a cross-enrollment agreement with the NROTC unit at the University of Pennsylvania, La Salle students may earn commissions as naval officers while concurrently satisfying requirements for baccalaureate degrees at La Salle. NROTC courses will be held on the campus of the University of Pennsylvania. For further information on this cross-enrollment program or on scholarship aid, write or telephone: Professor of Naval Science, NROTC Unit, University of Pennsylvania, Philadelphia, PA 19104, (215) 898-7436.

ATTENDANCE POLICY

Students are expected to attend classes regularly. Absence required to provide for conditions beyond the control of the student, such as illness or serious personal or family situations, should be explained to the instructor. If an absence extends over a protracted period of time, the Office of the Dean of the individual student's school should be notified. Attendance is taken from the first regular class day regardless of the time of registration.

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EXAMINATIONS

The last week of each semester is set apart for final examinations. Examinations to measure student progress are given at mid-term. Students who, for satisfactory reasons, fail to take a semester examination as scheduled may take a delayed examination.

GRADES

The following system of grades is used in measuring the quality of student achievement.

A	Superior
B	Very Good
C	Average
D	Passable
F	Failure
I	Incomplete
W	Withdrawal
S	Satisfactory
U	Unsatisfactory
X	Audit

In the determination of final grades for courses, recitations, written assignments, and the results of the final examination are considered.

Incomplete: The I grade is a provisional grade given by an instructor to a student who has otherwise maintained throughout the semester a passing grade in the course, but who has failed to take the semester examination for reasons beyond his control. Make-up examinations for the fall semester must be completed before the opening day of the spring semester. All I grades that have not been removed within three weeks after the last regular examination of the semester become F's. When it is physically impossible for the student to remove this grade within the time limit, he must obtain a written extension of time from the dean of his school.

Withdrawal: The W grade is assigned when a student withdraws from a course with the dean's permission before its completion. Ordinarily, permission for withdrawal is not granted after mid-term examinations.

Satisfactory or Unsatisfactory: Students may take up to two free electives under a pass/fail option. If they indicate this option to the Registrar within three weeks after the course begins, the grade for the course will be recorded as S or U. Such a grade will not affect the cumulative index, but semester hours graded S will be counted toward the total required for graduation. The pur-

pose of this option is to encourage choice of challenging electives, including those outside the student's major field.

Audit: The X grade is assigned for courses audited. After obtaining permission from the course instructor and the dean, a student wishing to audit a course may sign up in the appropriate dean's office before the first day of class.

Courses repeated: If a student repeats a course, only the higher grade is counted in the academic index. A student may not repeat a course more than once without permission from his dean.

CLEP EXAMINATIONS

Students may receive credit for approved courses taught in the La Salle University curriculum through participation in the College Level Examination Program (CLEP) of the College Entrance Examination Board, or through other authorized standardized testing procedures or in-house tests. Students who wish to attempt credit through examination must receive permission from their Dean's Office to determine which examinations are acceptable to La Salle, and to obtain permission for participation.

While the Academic Dean determines the credits to be granted for CLEP and other authorized standardized testing procedures, the individual department designates the subject examinations which are applicable to specific courses at La Salle University. Students may not be granted credit for a general examination CLEP course after completion of the freshman year, and a student who has received credit through conventional courses or through standardized testing for one or more advanced courses in a discipline may not challenge a beginning course in that discipline. No grades are assigned to courses credited through authorized standardized testing procedures.

Students who elect to receive credit through authorized standardized testing procedures or approved in-house tests will pay an administrative fee of \$45.00 for each course examination taken.

STUDENT RESPONSIBILITIES

A student's matriculation at La Salle University is a voluntary decision which involves accep-

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tance of the responsibility to perform academically and to behave socially in ways consistent with the goals and objectives of the University. When registering at La Salle, the student accepts University rules and regulations and the authority of the University to exercise disciplinary powers, including suspension and dismissal. As a member of student organizations and as an individual, the student assumes responsibility for knowing and complying with all existing regulations in the *University Bulletin*, the *Student Handbook*, *The Resident Student Guidebook*, and any rules and regulations subsequently promulgated through appropriate publication to the University community. Copies of the *Student Handbook* may be obtained from the Student Life Office.

STUDENT REPORTS

A progress report is submitted to the Dean's Office by each instructor at the middle of each term. Final grades are submitted to the Registrar's Office at the end of a semester and these are made part of a student's permanent record. A report of semester grades is mailed to the student within two weeks after final examinations.

SCHOLARSHIP INDEX

A scholarship index system is used at La Salle to determine a student's average grade. In determining the index, each letter grade is ascribed a numerical value, called grade points. A is valued at 4 grade points; B is valued at 3 grade points; C is valued at 2 grade points; D is valued at 1 grade point; F is valued at zero grade points.

A grade point score is calculated for each course by multiplying the numerical equivalent of the letter grade by the number of semester hours. The index, or the average grade of all courses, is found by dividing the sum of the grade point scores for all courses by the total number of semester hours of course work attempted.

ACADEMIC PROGRESS

A full-time student is making adequate progress toward the degree if he or she has:

1. completed within the academic year (fall, spring, and summer) eighteen hours of new course work at satisfactory academic levels as indicated:

- a) completed freshman status—1.50 or above*
- b) completed sophomore status—1.75 or above*
- c) completed junior status—2.00 or above*
- d) within the senior year—2.00 or above*

*See index heading "Classification of Students" for definitions of status.

2. completed graduation requirements within a maximum of seven years of full-time study. For justifiable reason, exceptions may be determined by the dean.

This policy statement defines the parameters within which the University will define the progress of the student for aid and funding purposes. Since the decisions rest with the granting agencies, "adequate progress" does not guarantee such aid.

DEANS' HONOR LIST

The Deans' Honor List is published at the termination of each semester. Those students who have a cumulative average of 3.4 and above are placed on the Deans' List. To be eligible for this list, a student must have complied with all the requirements of the University and must have earned 24 credits with letter grades A, B, C, or D at La Salle University.

Deans' List students are eligible for courses in the University's Honors Program.

ACADEMIC CENSURE

Academic censure is intended to be a service to the student who is in academic difficulty. It serves to alert some to the severity of their academic problem and to encourage them to seek help and counsel they need. For others, it is the imposition of a time period away from academic endeavors to permit adjustment of priorities.

Academic censure may assume any one of three forms, depending on the student's academic standing. During the evaluation of student records at the end of each semester, a student will normally be subject to the form of academic censure indicated if the cumulative grade point average falls below the levels outlined.

1. Probation. A student is placed on probation who has attained a cumulative grade point average of (a) less than 1.50 after the first or

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second term of freshman year, (b) less than 1.75 after the first or second term of sophomore year, (c) less than 1.90 after the first term of junior year, (d) less than 2.00 after the second term of junior year or during senior year. Such a student will be continued on probation until he or she has satisfied the conditions for good academic standing.

2. Suspension. This is involuntary separation of the student from the University for a definite period of time, usually for two semesters. No academic work during a period of suspension will be accepted for a student's academic record at the University.
3. Dismissal. This is involuntary separation of the student from the University for an indefinite period of time. No academic work during a period of dismissal will be accepted for a student's academic record at the University.

A student is liable to suspension or dismissal:

1. when he/she has attained a cumulative scholarship index (a) less than 1.00 after the freshman year, (b) less than 1.50 after the sophomore year, (c) less than 1.90 after the junior year, or
2. when he/she is on probation for two successive semesters.

Decisions on probation will be made following determination of grades after the Fall semester, and after the final La Salle summer session. Decisions on suspension and dismissal will be made following determination of grades after the final La Salle summer session.

CREDIT FOR COURSES TAKEN AT OTHER INSTITUTIONS

Course work taken at other institutions by regularly-enrolled students at La Salle University may not be offered for credit unless the student has had written permission in advance from the dean of his school to take such courses. Credit is transferred only for marks of C or better.

REQUIREMENTS FOR A DEGREE

Students are responsible for filing an application for degree with the Registrar one year before the expected date of graduation.

Beginning with the graduating class of 1987, a candidate for the baccalaureate degree must have completed 120 semester credit hours which satisfy curricular requirements and which include at least 38 courses of 3 credit hours or more.

Certain curricula may require a number of hours exceeding this minimum. In addition to completing the required number of courses and hours, the student must also:

1. have obtained a C average or cumulative index of 2.00 in the total program of studies,
2. have fulfilled all course requirements controlled by the major department with a C average or a cumulative index of 2.00 in those courses,
3. have fulfilled the Foundation and Core Requirements.

Requirements for a Second Bachelor's Degree: La Salle will award either a B.A. or a B.S. degree to a student who has already earned a bachelor's degree from an accredited institution if these conditions are met:

1. The student will obtain written permission from the appropriate dean and chair.
2. If the student holds a bachelor's degree from La Salle, he or she will meet substantial requirements for the major as determined at the time the student matriculates in the second degree program. A minimum of 30 credit hours would be required.
3. If the student holds a bachelor's degree from another institution, a maximum of 70 credit hours may be transferred toward the second degree. The student must fulfill all core requirements as well as substantial requirements of the major as determined at the time the student enrolls in the second degree program.

HONORS

The bachelor's degree with honors is conferred on a student who has completed his or her courses at the University with an average of all marks not lower than 3.4 and who has not incurred the penalty of loss of good standing for disciplinary reasons.

The candidate for the bachelor's degree who has earned an average of 3.8 in all courses is graduated with the distinction *Maxima Cum Laude*.

Programs & Procedures

The candidate who has earned an average of 3.6 is graduated with the distinction *Magna Cum Laude*.

The candidate who has earned an average of 3.4 is graduated with the distinction *Cum Laude*.

Honors are computed on the basis of the work done for eight semesters.

WITHDRAWALS

A student who withdraws from the University must submit a withdrawal notice to the dean of his school. The date of filing the withdrawal notice is considered as the date of withdrawal in all cases. Resident students must also notify the Resident Life Office.

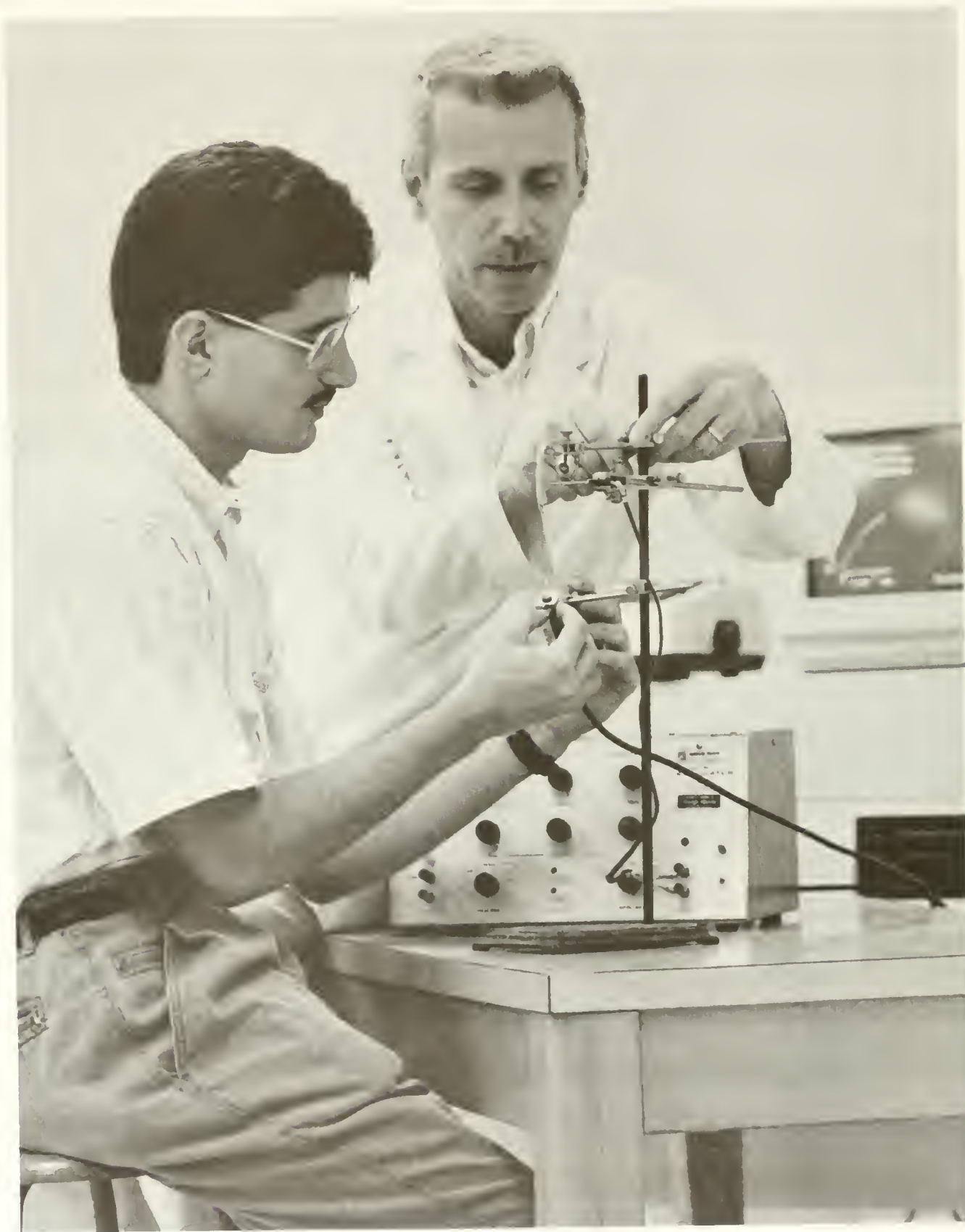
TRANSCRIPTS

Students may apply at the Registrar's Office for a transcript of their collegiate work. Official transcripts bearing the signature of the Registrar and the seal of the University are sent, at the request of the student, to other institutions and organizations.

Students requesting transcripts for their own use are given copies marked "student copy." Each student is sent a copy of his transcript at the time of graduation. A fee of \$2.00 is charged for an official transcript. The University requires at least one week's notice for the issuance of transcripts. No transcripts can be issued until all financial obligations to the University have been satisfactorily settled.



Arts & Sciences



Degree Programs

The School of Arts and Sciences offers general or liberal arts programs and programs in science and mathematics. Within these two areas you may further specialize in a major field of study. In the liberal arts, the Bachelor of Arts degree is offered in art history, communication, economics, English, foreign languages, history, music, philosophy, political science, religion, and sociology. Concentration in the science area may lead to a B.A. degree in biology, chemistry, computer science, geology, mathematics, physics, or psychology.

The School also offers programs designed as preparation for health professions, law, public administration, teaching, social work, and work in criminal justice. The Bachelor of Social Work degree is conferred upon social work graduates.

PREPARATION FOR THE HEALTH PROFESSIONS

Students preparing for careers in the health professions (medicine, dentistry, veterinary medicine, podiatric medicine, optometry) generally major in biology or chemistry, but may elect to major in any program provided they schedule the required minimum science and mathematics courses to support their applications. The courses specified by the Association of American Medical Colleges for Medical School applicants are generally applicable as minimal requirement for any of the health professions. They are:

Chemistry	12-16 semester hours
Physics	8 semester hours
Biology	8 semester hours
Mathematics	0-6 semester hours

Most professional schools will accept these as minimal preparation, but recommend additional courses. Students should be alert to the fact that professional schools are interested in demonstration of aptitude in science and mathematics, and the courses taken must be those normally rostered by majors in these areas, not courses offered for non-major election.

In the normal review process in these schools, the applicant's full undergraduate record is scrutinized. The strong liberal arts component in the LaSalle curriculum will provide evidence of broad interest and rounded academic development. Evidence of leadership and active interest in associated activities will lend strong additional support to applications.

Normally the competition for placement in these programs results in high acceptance standards. Grade point averages ranging from 3.0 to 3.5 are representative of levels expected in these programs. Students are encouraged to consult with the health professions advisor concerning admissions criteria at various schools.

PREPARATION FOR TEACHING

The teacher preparation program leads to eligibility for an Instructional I certificate to teach in either the elementary or secondary schools or to teach mentally and/or physically handicapped students in the elementary and secondary schools of Pennsylvania. The Pennsylvania Department of Education has granted program approval in the preparation of teachers of biology, chemistry, communication, earth and space science, elementary education, English, French, German, Italian, Latin, mathematics, physics, Spanish, special education, and comprehensive social studies. Students who satisfactorily complete the University's requirements in these areas are recommended by the Education Department faculty for a teaching certificate. Those planning to teach outside of Pennsylvania should familiarize themselves with certification requirements elsewhere.

The Education Departmental Board, consisting of faculty members from the Education Department, one faculty representative for each of the subject areas of teacher preparation, and student representatives in the teacher preparation program, makes final intradepartmental decisions on planning, conducting, and evaluating the teacher preparation program. The University's Career Planning and Placement Bureau aids graduates in obtaining positions.

For details on specific requirements in each area of certification, please see the director of the appropriate program (elementary and special education, or secondary education).

PREPARATION FOR LAW

Law schools do not prescribe particular curricula for admissions. La Salle University, therefore, approaches the preparation for law on an individualized basis, tailoring the program of each student to individual needs and desires. Thus, students may major in English, political science, history, etc., as preparation for law.

Degree Programs

The Pre-Law Program offers the student a coordinated approach to course selection, preparation for the Law School Admission Test (LSAT), and both academic and admissions counseling. In addition, it provides many programs and panel discussions through the St. Thomas More Pre-Law Society. The Pre-Law Program is coordinated by Professor Arthur Shuman. Students are encouraged to contact him as soon as they are or may be interested in a career in law.

PREPARATION FOR CRIMINAL JUSTICE PROFESSIONS

Students preparing for careers in criminal justice professions pursue a curriculum which combines liberal arts with intensive coursework in the behavioral and social sciences and specialized courses in criminal justice. A major in criminal justice qualifies the student for admission to graduate programs in criminal justice and prepares the student for entry-level positions in law enforcement, judicial administration, probation, parole, and correctional administration.

PREPARATION FOR SOCIAL WORK

The primary objective of the social work program is to prepare competent, generalist practitioners for entry-level positions in the social work profession. Building on a liberal arts foundation, a knowledge of basic social work theory is acquired. The student explores the biological, psychological, social, economic, and political phenomena that have an impact on people. There is a heavy emphasis on the development of skills needed to mobilize systems and resources for the enhancement of social functioning, for the humanizing of institutions, and for the promotion of social change.

A secondary objective of the program is to prepare students for graduate studies in social work and other human service professions. To this end, a firm theoretical base is laid to support advanced study.

Graduates of the program have developed careers in both public and voluntary agencies. They are in such fields as child welfare, family services, aging, and public welfare. Many graduates choose to go on to graduate school either directly or after having gained work experience.



Curriculum

THE CORE CURRICULUM

The Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a system of values rooted in the best thinking of the great minds of the past and present.

Whatever your eventual major, your core courses will have allowed you to acquire a basic body of knowledge and habits of thinking that are independent of career interests. The Core Curriculum at La Salle has been revised after several years of study and debate on the part of students, faculty, and administrators. This new curriculum will give you a real advantage as you attempt to build your life and your career after graduation. It will help you *learn how to learn* by giving you experience in researching information, understanding relationships, and communicating effectively with others.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Core Curriculum consists of three parts: Foundation, Core I, and Core II.

Foundation Courses (7-9 courses, normally completed by end of sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. Depending upon your previous preparation, you will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science. The writing and computer science courses are intended to give you the tools you need; the others will acquaint you with some of the best that has been written or thought in each field. The University may waive a writing course or a computer science course if your background so warrants. Foundation courses may not be used to fulfill any other curricular requirement (core, major, or elective). However, an individual Foundation course may be waived for a student majoring in a department represented in the Foundation area.

Core I Courses (6 courses, normally completed by end of junior year. Foundation courses

may not satisfy this requirement unless required by your major department.)

These courses are an opportunity to build upon the foundations you have in place.

In Core I A, you take three courses in Religion and Philosophy (two in one subject and one in the other).

In Core I B, you also take a sequence of three courses in one of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Italian, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

Core II Courses (2 courses from a subject or combination of subjects listed below. May not be in your major subject or in the subject you chose for your Core I sequence.)

- Fine Arts (Art or Music)
- Foreign Language (Must be in same language.)
- History
- Literature
- Social Science (Economics, Psychology, Political Science, Sociology)

MAJOR REQUIREMENTS

Requirements for majors in each department are listed along with that department's course descriptions in this catalog. Effective 1990-91, all students will be required to take a writing emphasis course in their major discipline at the Junior/Senior level.

FREE ELECTIVES

Students may choose to concentrate free electives in a particular discipline to build a minor or may use these electives to diversify their background or broaden their interests. Students may not take additional Foundation courses as electives in satisfaction of graduation requirements without express permission from the Dean's Office. Such permission will be granted only in the following exceptional cases: (1) In the event that a course serves both as a foundation course and as the introductory course to a discipline in which the student intends to do additional work.

Curriculum

(2) For some defensible academic reason acceptable to the Dean. No more than two free electives may be taken on a pass/fail basis.

DESIGNATED MINORS

A student may designate up to two minors, which will be officially recorded on the transcript as minors. The School of Arts and Sciences offers minors in the following disciplines: art history, biology, chemistry, communication, computer science, criminal justice, economics, education, English, foreign language, geology, history, mathematics, music, philosophy, physics, political science, psychology, religion, sociology.

Special minors are also available in General Business, Health Care Administration, International Studies, Risk Management and Insurance, Urban Studies, and Women's Studies.

Requirements: To minor in a discipline listed above, you must complete six courses within the discipline (not counting Foundation courses). Courses used to meet Core I or Core II requirements may also be used in constructing a minor. At least two of the six must be at the 300-400 level. No more than two may be at the 100-level. The remaining two or three may be at the intermediate level.

The requirements for the special minors are listed in their proper alphabetical positions in the Course Descriptions section of this catalog.

MODEL ROSTER—ARTS & SCIENCES

FRESHMAN YEAR

Fall

Major Course
Major Course or Elective*
Writing or Foundation
Literature or Computer
Science Foundation
Religion or Philosophy
Foundation

Spring

Major Course
Major Course or Elective*
Writing or Foundation
Literature or Computer
Science Foundation
Religion or Philosophy
Foundation

SOPHOMORE YEAR

Fall

Major Course
Major Course or Core
Science or
Other Foundation
Core Course
Core Course

Spring

Major Course
Major Course or Core
Science or
Other Foundation
Core Course
Core Course

JUNIOR YEAR

Fall

Major Course
Major Course
Core Course
Core or Elective*
Elective*

Spring

Major Course
Major Course
Core Course
Core or Elective*
Elective*

SENIOR YEAR

Fall

Major Course
Major Course
Major or Elective*
Elective*
Elective*

Spring

Major Course
Major Course
Major or Elective*
Elective*
Elective*

*Elective Courses in the Freshman and Sophomore years should be used to complete the Core. Elective Courses in the Junior and Senior years should be used to complete dual majors, minors, or for personal enrichment.

PROGRESS RECORD

FOUNDATION (7-9 courses)

- | | |
|----------------------------------|--|
| 1. Writing I ¹ _____ | 6. Social Science_____ |
| 2. Writing II_____ | 7. History_____ |
| 3. Literature ² _____ | 8. Science_____ |
| 4. Religion_____ | 9. Computer Science ³ _____ |
| 5. Philosophy_____ | |

¹May be waived by decision of the University before you begin course work.

²May be in English or in Foreign Language Literature in English translations.

³May be waived by challenge examination before you begin course work.

CORE I (6 courses)

I A (3 courses)

Religion and Philosophy

1. REL_____
2. PHL_____
3. REL or PHL_____

I B (3 courses from any one of these disciplines)

Fine Arts History

Foreign Language Literature

1. _____
2. _____
3. _____

CORE II (2 courses from one discipline or from a combination of disciplines)⁴

Fine Arts Literature Foreign Languages⁵

Social Science History

1. _____
2. _____

⁴Also approved to fulfill Core II requirement: COM 204, 210. EDC 201, 203.

⁵Both courses must be in same foreign language.

MAJOR COURSES

- | | |
|----------|-----------|
| 1. _____ | 9. _____ |
| 2. _____ | 10. _____ |
| 3. _____ | 11. _____ |
| 4. _____ | 12. _____ |
| 5. _____ | 13. _____ |
| 6. _____ | 14. _____ |
| 7. _____ | 15. _____ |
| 8. _____ | |

ELECTIVES

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Areas of Study

Courses listed in this section are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives. Key: (F)—Offered in Fall term; (S)—Offered in Spring term; (F, S)—Course may be rostered in either Fall or Spring term. The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis. Courses approved for Foundation, Core I (3-course sequence) or Core II (2-course option) are so indicated.

 identifies courses that have been designated as writing intensive.

ART HISTORY

(See Fine Arts.)

BIOLOGY

FACULTY

Norbert Belzer, Ph.D., *Chair*
Associate Professors: Belzer,
 McPhillips, Mickel, Muldoon,
 Seitchik
Assistant Professors: Ksiazek,
 O' Connor

FOUNDATION COURSES

BIO 154, 155, 156

REQUIREMENTS

Required for Major in Biology:

- BIO 201, 202, 203, 407-408, and additional biology courses to total a minimum of 33 hours
- CHM 111-112, 201-202
- MTH 120

- PHY 105-106
 (N.B. 100-level biology courses may not be used to fulfill biology major requirements.)

Non-majors planning to elect biology courses above the 100 level must secure the permission of the Chair. BIO 201 is a prerequisite for all courses above the 100 level.

COURSE DESCRIPTIONS

BIO 154 (F, S)
 ECOLOGY AND ENVIRONMENTAL ISSUES
 3 credits **Foundation**
 Lectures, visuals, and demonstrations to introduce basic ecological principles and environmental issues from a scientific and sociological viewpoint. Topics include: ecosystems, trophic levels and food webs, populations, natural resources, and pollution. Three hours lecture, no laboratory.

BIO 155 (F, S)
 LIFE BEFORE BIRTH
 3 credits **Foundation**
 Lectures, visuals, demonstrations, and student investigation will illustrate the sequential formation of the human body from production of the reproductive cells, through fertilization and organ formation, to birth. In addition, common developmental problems and their causes will be discussed. Three hours lecture, no laboratory.

BIO 156 (F, S)
 HUMAN GENETICS
 3 credits **Foundation**
 Lectures, supplemented with visuals and demonstrations to illustrate the general principles of genetic transmission and their application. Discussion of currently developing technologies and procedures for genetic control which might have an impact on humans and of problems arising from gene

and/or chromosomal abnormalities. Three hours lecture, no laboratory.

BIO 161-162 (F, S)
 ANATOMY AND PHYSIOLOGY
 4-8 credits
 A basic course in the structure and functioning of the human body with emphasis placed on the interrelationships of the major organ systems. Three hours lecture, two hours laboratory; two terms.

BIO 163 (F)
 CLINICAL MICROBIOLOGY
 3 credits
 Structure, growth, and identification of medically important microorganisms; role of specific pathogens in the etiology of human disease; immunology; chemotherapeutic and antibiotic control of infectious diseases. Recommended for nurses. Two hours lecture, two hours laboratory.

BIO 201 (F, S)
 PRINCIPLES OF BIOLOGY
 4 credits
 Integrated principles of modern biology; the attributes of life; the continuity of life; genetics; energy sources and the biological energy cycles and communities. Required of all biology majors; taken as first major course; may be waived for advanced standing. Prerequisite: CHM 111-112. Three hours lecture, two hours laboratory.

BIO 202 (F, S)
 THE INVERTEBRATES
 4 credits
 Life processes, phylogenetic advances, and basic classification of the major pre-chordate phyla with emphasis on their evolution and ecology. Three hours lecture, two hours laboratory.

BIO 203 (F, S)
 THE PLANT KINGDOM
 4 credits
 Functional anatomy, phylogeny, and basic systematics of

Areas of Study

non-vascular and vascular plants. Three hours lecture, two hours laboratory.

BIO 301 (F, S) **THE VERTEBRATES**

4 credits
Comparative systemic anatomy of the vertebrate classes; hypotheses of origin and radiation of the phylum Chordata. Laboratory dissections of representative Chordates from amphioxus to mammal. Two hours lecture, four hours laboratory.

BIO 303 (F, S) **MICROBIOLOGY**

3 credits
Structure, growth, identification, and control of microorganisms of major medical, environmental, and industrial importance; molecular control and genetics of bacteria and viruses; immunology; microbial pathogenesis; epidemiology of infectious diseases of humans. Two hours lecture, two hours laboratory.

BIO 305 (F) **GENERAL PHYSIOLOGY**

3 credits
A lecture-laboratory course that examines the metabolic processes and associated physiochemical phenomena of vertebrates. Current hypotheses of neural, endocrine, respiratory, cardiovascular and digestive physiology will be studied. Two hours lecture, two hours laboratory.

BIO 306 (S) **NEUROMUSCULAR PHYSIOLOGY**

3 credits
A lecture-laboratory study of the nervous system and its interaction with the muscular system of vertebrates. Two hours lecture, two hours laboratory.

BIO 308 (F) **METHODS IN BIOLOGICAL RESEARCH**

3 credits
A laboratory course designed to give the students hands-on experience in proper use of laboratory equipment, care of laboratory animals, common histological and cytological techniques, tissue culture, use of radioisotopes in research and experimental design; for students interested in a research career. One hour lecture, four hours laboratory.

BIO 310 (S) **GENETICS**

3 credits
An introduction to genetics at the molecular, cytological and organismal level. Included are the thorough coverage of Mendelian and other basic transmission genetics phenomena in the light of our knowledge of DNA and cell structure and function; Mutation and Mutogenesis; and an introduction to Recombinant DNA. Three hours lecture.

BIO 312 (F 1990, 1992) **RADIOBIOLOGY**

3 credits
Theory of the production, detection, and measurement of ionizing radiations; use of ionizing radiations in research and medicine; effect of ionizing radiations on life forms. Two hours lecture, two hours laboratory.

BIO 314 (S) **BIOMETRICS**

3 credits
Analysis of experiments and research data in quantitative biology. Descriptive and inferential statistics, including: probability distributions, analysis of variance, regression and correlation. Three hours lecture.

BIO 315 (S 1991, 1993) **PLANT PHYSIOLOGY**

3 credits
Metabolic and physical processes of plants. Emphasis on photosynthesis, photorespiration, mineral nutrition, transpiration, phloem transport, intermediary metabolism, and hormonal activity. Recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory.

BIO 316 (S 1990, 1992) **PLANT ANATOMY**

3 credits
Structure of plant tissues and organs, particularly those of higher vascular plants. Emphasis on vegetative organs, but reproductive organs are discussed. Structure correlated with function and/or habitat. Recommended prerequisite: BIO 203. Two hours lecture, two hours laboratory.

BIO 318 (F 1990, 1992) **EVOLUTION**

3 credits
A presentation and analysis of the evidence for the evolution of life. Major topics include the origin of life and cellular organelles as well as the development of the diversity of life present today. Heavy emphasis on the ideas of Charles Darwin as expanded and modified by evidence from modern population genetics, cytogenetics and molecular biology. Three hours lecture.

BIO 401 (F) **TAXONOMY OF THE SEED PLANTS**

3 credits
A survey of seed forming plants with emphasis on flowering plants. Lectures emphasize the principles of identification, classification, systematics as well as economic importance of selected families of seed plants. Two hours lecture, two hours laboratory.

Areas of Study

BIO 402 (F) CELL BIOLOGY

3 credits

Physical properties, chemical structure, and metabolism of simple and specialized cells; recent advances in the techniques of cell culture and investigation. Two hours lecture, two hours laboratory.

BIO 403 (F) PRINCIPLES OF ECOLOGY

3 credits

Basic concepts of ecology and a broad introduction to overall biosphere functioning. Major topics include energy flows; nutrient cycles; environmental conditions and their importance; Plants and animals at the individual, population and community level; and the overall functioning and development of the major terrestrial and aquatic ecosystems. Three hours lecture.

BIO 404 (S 1990, 1992) FIELD ECOLOGY

3 credits

Project laboratory at La Salle Penllyn Biostation; supervised student research projects in terrestrial and aquatic ecology. Prerequisite: BIO 403. Six hours laboratory and field work.

BIO 405 (S) HISTOLOGY

4 credits

An examination of the minute and ultra structure of mammalian primary tissues together with their functional relationships in the formation of major organ systems; histological basis of function is stressed. Three hours lecture, three hours laboratory.

BIO 406 (F) EMBRYOLOGY

3 credits

Fundamental principles underlying vertebrate development and differentiation. Lectures and labs use the development of the frog, the

chick, and the human to illustrate the basic principles.

BIO 407-408 BIOLOGICAL/PHYSICAL CHEMISTRY

4-8 credits

The principles of physical chemistry as they apply to biochemical reactions and the principal biochemical species and reaction sequences, the role of these reactions in specific biological functions. Laboratory application of techniques of analytical chemistry to analysis of biochemical reactivity. Three hours lecture, three hours laboratory; two terms.

BIO 470 (F, S) SPECIAL TOPICS IN BIOLOGY

3 credits

Periodically, a course will be offered that deals in detail with a topic of interest in current biological research. Students may be asked to write library research paper(s) and present a seminar.

BIO 480-481 (F, S) BIOLOGICAL RESEARCH

2-4 credits

For election, particularly by qualified students contemplating advanced studies. Intended to provide actual research experience under staff supervision. Permission of Chair required. Hours to be arranged.

CHEMISTRY

FACULTY

Thomas S. Straub, Ph.D., *Chair*
Associate Professors: Cichowicz, Shalhoub, Straub
Assistant Professors: Jones, Price
Lecturer: Polek

FOUNDATION COURSE

CHIM 150

REQUIREMENTS

Required for Major in Chemistry: 15 courses

- CHM 111-112, 201-202, 301-302, 305, 401, 402, 403
- MTH 120, 221, 222 (It is strongly suggested that chemistry majors begin with Mathematics 120 as freshmen.)
- PHY 105-106 (PHY 211 is excellent preparation for CHM 301 and 302, but is not absolutely required.)
- The department suggests that all chemistry majors have at least 400 hours of lecture and 500 hours of laboratory work, CSC 152, a second computer-based course, and/or a reading knowledge of a foreign language. Some advanced work in chemistry (normally CHM 308 or 470), and some research experience are recommended. This additional work may qualify a chemistry major for accreditation by the American Chemical Society. The chemistry program is accredited by the American Chemical Society.

COURSE DESCRIPTIONS

CHM 111-112 GENERAL CHEMISTRY

4-8 credits

A general course based on physical principles; emphasis on elementary thermodynamics with applications to gases, solutions, heats of reaction, electrochemistry, ionic and non-ionic equilibria. Concepts of elementary quantum mechanics applied to spectral concepts and the theory of the chemical bond. Reaction kinetics applied to reaction mechanisms. Descriptive chemistry of the representative elements and transition metal complexes. Laboratory examines qualitative and quantitative aspects of chemistry. Three hours lecture, three hours laboratory.

Areas of Study

CHM 150 (F, S)**CONSUMER CHEMISTRY**

3 credits

Foundation

A non-mathematical examination of the development of fact and theory in chemistry and the utilization of chemistry by society. Topics may include energy, pharmaceuticals, environmental effects, food additives, and synthetic materials. No prior knowledge of chemistry required.

CHM 161 (F)**CHEMISTRY OF THE LIFE SCIENCES**

4 credits

A terminal course for students who wish to obtain a general knowledge of chemistry with emphasis on the processes in the body and in nature. Descriptive and some quantitative principles discussed. Three hours lecture, three hours laboratory.

CHM 201-202**ORGANIC CHEMISTRY**

4-8 credits

Chemistry of carbon compounds with emphasis on structure, stereochemistry, synthesis and reaction mechanisms. Application in allied fields. Laboratory introduces techniques involved in organic synthesis, analysis, and study of reaction mechanisms. Intended for majors in chemistry, biology, and all students pursuing careers in the health professions. Prerequisites: CHM 111-112. Three hours lecture, three hours laboratory; two terms.

CHM 301-302**PHYSICAL CHEMISTRY**

4-8 credits

Elementary principles of physical chemistry discussed and illustrated by suitable laboratory experiments. The ideal gas, real gases, liquids, solids, elementary thermodynamics, thermochemistry, solutions, equilibria, kinetics, electromotive force, electrical conductivity, and chemical thermodynamics.

Prerequisites: CHM 201-202, MTH 221-222. Three hours lecture, three hours laboratory; two terms.

CHM 305 (F)**QUANTITATIVE ANALYSIS**

4 credits

Neutralization, oxidation-reduction, chemical equilibria, colorimetry, and the methods of quantitative chemical analysis. Thorough training in volumetric, gravimetric, and colorimetric techniques. Two hours lecture, six hours laboratory. Prerequisite: CHM 112.

CHM 306 (S)**QUANTUM CHEMISTRY**

2 credits

Quantum mechanics applied to the solution of some elementary systems. Discussion of chemical bonding. Introduction to elementary statistical mechanics using results derived from quantum mechanics.

Prerequisites: CHM 301-302.

CHM 308 (S)**BIOCHEMISTRY**

4 credits

The chemistry of carbohydrates, fats, proteins, vitamins, enzymes, and hormones; emphasis on their roles in biochemical processes. Laboratory work illustrates common techniques used to prepare, identify, and assay biochemical materials.

Prerequisites: CHM 201-202, 301.

Three hours lecture, three hours laboratory.

CHM 401 (F)**QUALITATIVE ORGANIC ANALYSIS**

4 credits

A course in current methods of organic synthesis with emphasis on the separation and identification of reaction products. A one-hour lecture per week devoted to advanced spectral methods as applied to structure determination. One hour lecture, seven hours laboratory per week.

Prerequisites: CHM 201-202.

CHM 402 (S)**ADVANCED QUANTITATIVE ANALYSIS, INSTRUMENTAL ANALYSIS**

4 credits

Theory and practice of physical measuring instruments with particular attention to modern trends in analytical chemistry. Prerequisites: CHM 301, 302, 305. Two hours lecture, six hours laboratory.

CHM 403 (F)**ADVANCED INORGANIC CHEMISTRY**

4 credits

Theoretical aspects of chemical bonding, descriptive chemistry trends relative to the periodic table, molecular structure and symmetry of molecules, and general discussion of the transition metals, their complex ions, and their organometallic chemistry. Prerequisites: CHM 201-202, 301-302. Three hours lecture, three hours laboratory.

CHM 404 (S)**ADVANCED ORGANIC TOPICS**

3 credits

Designed to extend the knowledge of organic chemistry; emphasis on those topics not fully developed in the elementary course. An introduction to the literature of chemistry is also included. Prerequisites: CHM 201-202, 301. Three hours of lecture.

CHM 450 (F, S, Summer)**COOPERATIVE CHEMICAL EDUCATION**

3 credits

A cooperative experience between the chemistry department and chemical industry to provide on-the-job training in fields relating to chemistry and industry. On approval of the Chair only.

CHM 470 (F, S)**SPECIAL TOPICS**

3 credits

Courses in "Polymers and Polymer Coatings" and in

Areas of Study

"Chemical Marketing" are offered as Special Topics in the Evening Division and are open to day students.

CHM 480 and/or 481 (F, S)

CHEMICAL RESEARCH

4-8 credits

Individual laboratory or theoretical work under supervision of a staff member. Restricted to chemistry majors. Hours to be arranged.

COMMUNICATION

FACULTY

Gerard F. Molyneaux, F.S.C., Ph.D.,
Chair

Associate Professors: Goedkoop,
Molyneaux, Wine

Assistant Professors: Kirk, MacLeod

Instructor: Dobris

Lecturers: Gallagher, Gunzerath,
Lyons, McGoldrick, Perrello

CORE COURSES

Approved courses for Core II:
COM 204, 210.

REQUIREMENTS

Required for Major in
Communication: 15 courses

- COM 201, 202 or 210, 203, 204, 206, 301, 302 or 303, 304, 305, one course from 310-314, 401, 403, 404 or 410
- Two English electives (excluding: Foundation Courses, English 109, 160, 165, 166, 300, 310, 350-351, 461)

COURSE DESCRIPTIONS

COM 201 (F, S)

INTRODUCTION TO MASS MEDIA

3 credits

Investigation of newspapers, magazines, radio, television, and film as mass media. Influence of

the medium on content. Internal and external efforts at regulation.

COM 202 (F, S)

INTERPERSONAL COMMUNICATION

3 credits

Through lectures, demonstrations, and laboratory experiences, students learn current theories of communication and improve their skills in communicating personally and through media. Group and individual analysis of the dynamics of communication processes.

COM 203 (F, S)

MEDIA: DESIGN AND PRODUCTION

3 credits

Analysis and production of visual communication through still photography, television, and film to develop skills in perception and composition of visual communication.

COM 204 (F, S)

FILM AS ART

3 credits

Core II

Screening of films by outstanding American and foreign directors: Hitchcock, Welles, Bergman, Kurosawa, Kubrick, Allen, Scorsese and others. Study of how the films were created, of how we may analyze them, and of how the art of film has changed through history.

COM 206 (F, S)

FUNDAMENTALS OF JOURNALISM

3 credits

Reporting and interviewing techniques, newswriting, copy editing and headline writing, the editorial, the feature story, newspaper makeup and design, libel, and the responsibility of the press. Two hours lecture, one hour of field assignment weekly.

COM 210 (F, S)

DYNAMICS OF COMMUNICATION

3 credits

Core II

Introduction to the theories and practices of interpersonal and

group communication and public speaking. Development of skills in listening, observation, verbal and non-verbal communication, and planning, researching, and delivering the public speech.

COM 301 (F, S)

BROADCASTING IN AMERICA

3 credits

A study of the structure of broadcasting in America and of its interaction with society. Prerequisite: COM 201.

COM 302 (F)

BROADCAST NEWSWRITING

3 credits

Introduction to and application of newswriting for radio and television, including hard news, features, and documentary formats.

COM 303 (S)

SCRIPTWRITING

3 credits

Introduction to and application of scriptwriting techniques in formats appropriate for the media of radio, television, and film.

COM 304 (F, S)

RADIO PRODUCTION

3 credits

Introduces students to the fundamental theories and practices of radio production. Topics include: arranging the programming day; scripting news, dramatic and commercial presentations; training of personnel for actual programming. Prerequisite: COM 203.

COM 305 (F, S)

TELEVISION PRODUCTION

3 credits

Introduction to the planning, production, and editing methods of electronic communication. Includes pre-production scripting and participation in production of videotaped television shows. Prerequisite: COM 203.

Areas of Study

COM 311 (F, S)**FAMILY COMMUNICATION**

3 credits

Course examines the theory and practice of families, and focuses on healthy and unhealthy patterns of communication. Aside from examination of personal family experiences, course explores skills for promoting satisfying communication.

COM 312 (F, S)**PERSUASION, PROPAGANDA, AND THE MEDIA**

3 credits

Explores the persuasion process by first examining the historical development of persuasion theory and practice in the Western world, and then focusing on persuasion in 20th century America. Students will examine the role of persuasion in public speaking, interpersonal communication, small group communication, and mass communication. Through developing an understanding of theory, method, and *application*, students will become critical consumers of communication, become improved practitioners, and will have a more holistic conception of how persuasion works in many contexts.

COM 313 (F, S)**BUSINESS AND PROFESSIONAL COMMUNICATION**

3 credits

Develops understanding of underlying communication processes in business and professional settings. Communication activities include: employment interviews, oral reports, impromptu and extemporaneous speeches, group discussions and proposal presentations.

COM 314 (S)**SEX ROLES AND COMMUNICATION**

3 credits

Focuses on communication between sexes. Examines

research on gender and communication in interpersonal, public, and mass media contexts.

COM 354 (F, S)**ORAL COMMUNICATION**

3 credits

Speech composition, audience psychology, and technique of delivery; emphasis on practical speaking experience and speech criticism

COM 401 (F, S)**ADVERTISING AND PUBLIC RELATIONS WRITING**

3 credits

How to write copy for print advertising and press releases, with an emphasis on creativity. The marketing process, campaign strategy, and advertising research. Preparation of a total campaign, requiring oral and written presentations in either advertising or public relations.

COM 403 (F, S)**FILM SEMINARS**

3 credits

The motion picture as industry, as historical record, and as art. Among topics offered: documentary film, film comedy in America, film theory and criticism, film history, the great directors. Prerequisite: COM 204 or permission of instructor.

COM 404 (F)**BROADCAST SEMINARS**

3 credits

Broadcast Regulation and Law, Future Technologies, and Communication Theories are offered as separate broadcast seminar topics. Junior and Senior students may select one or more of these topics for their seminar course(s).

COM 410 (F, S)**HUMAN COMMUNICATION SEMINARS**

3 credits

Designed to expose students to theories of human communication in specific areas of research.

Among topics offered are:

organizational communication, family communication, persuasion theory, communication theories and methods, intercultural communication, philosophy of communication, and gender communication.

COM 450**COOPERATIVE EDUCATION**

3 credits

Consult with Department Chair. Prerequisite: Junior or Senior standing.

COM 461 (F, S)**INTERNSHIP**

3 or 6 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 15 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or Senior standing, 2.75 grade point average, and recommendation of the Chair.

COM 462 (F, S)**INTERNSHIP**

6 credits

Intern will work approximately 25-30 hours per week.

COMPUTER SCIENCE

(See Mathematical Sciences.)

CRIMINAL JUSTICE

(See Sociology, Social Work, and Criminal Justice.)

Areas of Study

ECONOMICS

FACULTY

Richard T. Geruson, Ph.D., *Chair*
Professors: Kane, Mooney
Associate Professors: Duffy,
 George, Geruson, Grady
Assistant Professors: Cairo, Paulin,
 Ratkus, Robison

FOUNDATION COURSE

ECN 150

CORE COURSES

Approved courses for Core II:
 ECN 150, 201, 203, 330, 331. You
 may choose *one* or *two* economics
 courses to fulfill Core II
 requirements.

REQUIREMENTS

Required for Major in Economics:
 15 courses

- ECN 150, 201, 202, 203, 213, 214,
 303, 304, 361, 411, 480
- MTH 115-116 (MTH 113, 120,
 240 recommended in
 preparation for graduate
 school)
- Two courses in the social
 sciences (psychology, political
 science, or sociology)

COURSE DESCRIPTIONS

ECN 150 (F, S)
INTRODUCTORY ECONOMICS I
 3 credits **Foundation/Core II**
 A study of the economic system,
 including a comparison of market
 and command economies and
 consideration of the influence of
 government policies on economic
 activity. Emphasis on the U.S.
 economy and factors which
 determine employment, inflation,
 gross national product, and the
 money supply.

ECN 201 (S)
INTRODUCTORY ECONOMICS II
 3 credits **Core II**
 An introduction to
 microeconomic theory. Topics
 include: economic problems of
 the business firm; economic
 growth of society; urban problems
 associated with economic growth;
 economic approaches to
 ecological issues; international
 trade issues; economic problems
 of poor countries.

ECN 202 (F)
MONETARY ECONOMICS
 3 credits
 A study of the monetary and
 financial system of the U.S.
 economy. Emphasis on the
 importance of the money supply,
 the demand for money, and
 interest rates, along with more
 recent developments in the study
 of monetary variables.
 Instruments of monetary policy
 discussed and evaluated in the
 context of contemporary
 economic theory; the position of
 the American financial system in
 the international financial
 network. Prerequisites: ECN 150,
 201.

ECN 203 (S)
AMERICAN ECONOMIC HISTORY
 3 credits **Core II**
 Analyzes long-term economic
 growth and development since
 1600. Stresses demographic,
 technological, institutional factors
 interacting with the market
 system. Covers imperialism,
 slavery, industrialization and
 urbanization, role of government,
 rise of service economy. Applies
 basic economic questions and
 theories of growth to
 developmental questions.

ECN 213 (F, S)
ECONOMICS AND BUSINESS
STATISTICS I
 3 credits
 Identical with QNT 213.

ECN 214 (F, S)
STATISTICAL TECHNIQUES IN
ECONOMICS AND MANAGERIAL
DECISION MAKING
 3 credits
 Advanced statistical methods
 used in the analysis of economic
 and business decision problems.
 Emphasis on the role of statistics
 in economic and managerial
 decision-making, the identification
 of appropriate and valid statistical
 techniques to be used in the
 decision-making process, sound
 interpretation of statistical
 results, and successful execution
 of statistical methods. Topics:
 hypothesis testing; analysis of
 cross-classified data; analysis of
 variance; multiple regression and
 correlation; and time series
 analysis. Introduction to use of
 the SPSSX statistical computer
 package. Prerequisite: ECN 213.

ECN 301 (F, S)
LABOR PROBLEMS IN AMERICA
 3 credits
 Study of the sources of the union
 movement, its history, structure,
 and functions. Attention to the
 development of economic,
 political, and social power, as well
 as to the problems involved in the
 use of this power; management
 rights and management reaction
 to unions are also treated.
 Prerequisites: ECN 150, 201.
 Identical with HRM 301.

ECN 302 (F, S)
MANAGERIAL ECONOMICS
 3 credits
 Forms of competitive behavior,
 uses of marginal cost analysis,
 pricing techniques, and profit and
 demand measurement and
 forecasting. The process of
 evaluating alternative business
 solutions and tentatively
 formulating policies.
 Prerequisites: ECN 150, 201; MTH
 115-116 and QNT 213.

Areas of Study

ECN 303 (F)**INTERMEDIATE MICRO THEORY I: PRICE THEORY**

4 credits

Theory of consumer behavior, production, and cost. Price determination of products in various market models and of factors of production. Welfare economics. Prerequisites: ECN 150, 201 and MTH 115-116.

ECN 304 (S)**INTERMEDIATE MACRO THEORY II: THEORY OF EMPLOYMENT, GROWTH, AND FLUCTUATIONS**

4 credits

Theory of the level of income and employment. Theories of economic growth, traditional and modern. Theories of economic fluctuations, stabilization policies, and forecasting. Prerequisites: ECN 150, 201 and MTH 115-116.

ECN/POL 320 (F)**INTRODUCTION TO URBAN STUDIES**

3 credits

Interdisciplinary analysis of cities and urbanization. Examines comparative cause and effect patterns. Places the American experience in long run, world perspective. Stresses the post-1920 metropolitanization and how resultant urban problems interact with wider social and economic forces. Prerequisites: 6 hours of social science.

ECN/POL 321 (S)**SEMINAR IN URBAN STUDIES**

3 credits

Analyzes social and economic policy decisions towards urban America since World War II. Urban finance, housing, crime, schooling, transportation, and selected other areas examined. Includes evaluation of limits, directions, and mix of government and private sectors. Prerequisites: 6 hours of social science. Prerequisite: ECN/POL 320.

ECN 330 (230) (F, S)**THIRD WORLD POVERTY AND ECONOMIC DEVELOPMENT**

3 credits

Core II

An analysis of the causes of poverty in underdeveloped countries. Theories of development and policies to promote development emphasized. Social, political, cultural factors, and relations with rich countries also treated. Prerequisite: ECN 150

ECN 331 (231) (F)**INTERNATIONAL ECONOMICS**

3 credits

Core II

An introduction to the theory of international exchange, to natural and policy barriers to trade, to relations between developed and developing countries, and to international disequilibrium. Stress on the evolution of the international monetary system and selected current problems such as balance of payments, exchange standards, liquidity, and the role of international institutions. Prerequisite: ECN 150

ECN 361 (F, S)**CONTEMPORARY ECONOMIC SYSTEMS**

3 credits

A history and analysis of socialist and Marxist thought with particular attention to the structure and function of the economies of the United States and the Soviet Union.

ECN 404 (S)**PUBLIC FINANCE**

3 credits

An analysis of the revenue and expenditure activities of government with particular emphasis on the rationale of this government activity, the method of financing, and the effects of fiscal policy on allocation, distribution, efficiency, equity, and stability in the economy. Prerequisites: ECN 150, 201.

ECN 411 (F)**HISTORY OF ECONOMIC THOUGHT**

3 credits

A detailed study of the leading economic concepts and schools of economic thought from the late 17th to the early 20th centuries.

ECN 470 (S)**SPECIAL TOPICS**

3 credits

Concentration on a particular aspect of economic theory or economic issues. Topics will vary according to student interest and availability of faculty.

ECN 480 (F, S)**SEMINAR**

3 credits

A study of methodology in economics and of the techniques of preparing research reports. Prerequisite: Senior standing in Economics.

EDUCATION

FACULTY

Lawrence Colhocker, F.S.C., Ed.D.,
Chair

Robert Vogel, Ed.D., *Director of
Elementary and Special Education*

Francis Ryan, Ed.D., *Director of
Secondary Education*

Gary Clabaugh, Ed.D., *Director of
Graduate Education*

Associate Professors: Bangs,
Clabaugh, Feden, Lambert, Vogel
Assistant Professors: Colhocker,
Ryan, Schoen

CORE COURSES

Approved courses for Core II:
EDC 201, 203.

REQUIREMENTS

La Salle University offers teacher
preparation programs in

Areas of Study

secondary, elementary, and special education (see below). These programs are approved by the Pennsylvania Department of Education and lead to a B.A. degree and recommendation for Instructional I certification in the area(s) chosen by the certification candidate.

Students may declare a major in education in the Freshman year. Because of the nature of the requirements for certification, declaring the major as early as possible is highly recommended.

Application for admission to candidacy for certification is normally made at the end of the Sophomore year. In order to be admitted to candidacy, students must have an overall index of at least 2.0, and an index of 2.5 or better in all education course work. Secondary education majors must also have a 2.5 or better in the associated discipline (English, Mathematics, Chemistry, etc.). All candidates for certification must be recommended by appropriate faculty members, and their applications must be approved by the Education Department.

Before being accepted into the Professional Semester (Secondary Education majors) or the Professional Year (Elementary and Special Education majors) students must be recommended by the Education Department faculty. Recommendations are predicated upon successful completion of all course requirements with the indexes specified above and on the fitness of the individual for the professional position he or she has selected.

Upon successful completion of the Professional Semester or the Professional Year, a student may apply for Instructional I certification. State certification regulations require that an applicant for a teacher's certificate be known by the preparing institution as a person of good moral character,

possessing personal qualities, professional knowledge, and pedagogical competencies which warrant issuance of a teacher's certificate. In addition, all applicants must meet certain physical and medical standards to obtain an Instructional I certificate to teach in the public schools of Pennsylvania.

Anyone applying for a first Instructional certificate is required by State Board regulations to pass Pennsylvania Teacher Certification Tests in Basic Skills, General Knowledge, Professional Knowledge, and in the Specialty Area of certification. Some states may also require prospective teachers to take the National Teacher Exams. Students not majoring in education are invited to register for education courses that carry no prerequisites. Students planning to minor in education should see Brother Lawrence Colhocker, Chair (Olney Hall 254).

Requirements for Major in Secondary Education:

- EDC 102, 203, 204, 301, 304, 470-471-472
- EDC 218 (required of Comprehensive Social Studies majors)
- Courses designated for associated discipline (See Education Department brochure and area advisors for specific courses.)

La Salle University offers a program of studies that is approved by the Pennsylvania Department of Education and leads to recommendation for Instructional I certification in Comprehensive Social Studies, Communications (Non-Print media), English, Earth and Space Sciences, Biology, Chemistry, Physics, Mathematics, French, German, Italian, Latin and Spanish. (Foreign language students are certified to teach K-12.) For further information, see Dr. Francis Ryan, Director of

Secondary Education (Olney Hall 231).

Requirements for Major in Elementary and Special Education:

- EDC 101, 102, 201, 203, 204, 217, 218, 301, 302, 304, 343, 344, 475-476
- ECN 150, MUS 101, ART 101, HIS 101, 201 or 301

La Salle University offers a unique program of studies that is approved by the Pennsylvania Department of Education and which leads to recommendation for Instructional I certification as an Elementary Educator, a Teacher of the Mentally and/or Physically Handicapped (K-12), or both. The Mentally and/or Physically Handicapped certificate enables successful graduates to teach severely/profoundly, trainable, and educable mentally retarded children; emotionally disturbed children; learning disabled children; physically handicapped children; and brain damaged children. The elementary certificate allows graduates to teach non-handicapped students in grades K-6. All elementary and special education majors must meet with a department faculty member during each preregistration period throughout the entire four-year program. This insures that all students are following the prescribed sequence of courses leading to a degree and to certification. For further information, see Dr. Robert Vogel, Director of Elementary and Special Education (Olney Hall 255).

Requirements for Major in Business Education:
See Chairperson of Education Department (Olney Hall 254).

Requirements for Religion-Education:

- EDC 203, 204, 301, 470-471-472
- Courses designated by the Religion Department.

This program has been designed for those students who

Areas of Study

wish to teach religion in the secondary school. Since religion is not an accredited subject in any state, no Pennsylvania Instructional certificate can be issued.

Requirements for Master of Arts in Education:

See Dr. Gary Clabaugh, Director of Graduate Education (Olney Hall 258).

COURSE DESCRIPTIONS

EDC 101 (F, S)

THE ROLE OF THE DEVELOPMENTALLY-ORIENTED TEACHER

3 credits

A field-based introduction to the various roles teachers play in American education. Reflective teaching experiences. Two hours per week in-field activity. (Open to Freshmen and Sophomores only.)

EDC 102 (F, S)

FOUNDATIONS OF EDUCATION: A DEVELOPMENTAL PERSPECTIVE

3 credits

Provides a basic understanding of the historical, sociological, political, philosophical, natural scientific and comparative foundations of the schooling process. Also highlights current issues in education and outlines certification practices and procedures.

EDC 201 (F, S)

HUMAN EXCEPTIONALITY

3 credits

Core II

A study of human exceptionality, which is actually a study of being human. Examines methods used to label people, reasons why we label, and effects that labeling may have on a person, all from a multi-disciplinary perspective. Each area of exceptionality is defined and studied in terms of characteristics, causes, prevention, and intervention strategies.

EDC 203 (F, S)

EDUCATIONAL PSYCHOLOGY I: LEARNING AND DEVELOPMENT

3 credits

Core II

Study of psychological principles as they apply to the pupil in both formal and informal instructional settings. Emphasis on the analysis of human development and learning theory from an educational perspective as well as on the implications of that theory relative to the learner, the learning process, and the instructional environment.

Addresses the concerns of teachers and other professionals involved in educational and other human services. Topics: teaching as an art and science; the nature and principles of human development; the cognitive, moral, and social development of the learner; and the nature of behavioral and cognitive learning theories.

EDC 204 (F, S)

EDUCATIONAL PSYCHOLOGY II: CURRICULAR AND INSTRUCTIONAL APPLICATIONS

3 credits

Assuming the student's knowledge of human development and learning theory, this course focuses on curricular and instructional applications of that theory. Topics: curricular and instructional design, modes of instruction, the transfer and retention of learning, the motivation of learners, classroom management, individual differences, learners with special characteristics, educational tests and measurements, and the evaluation of student performance. Field experience required (two hours each week). Prerequisite: EDC 203.

EDC 217 (F, S)

MATHEMATICS FOR TEACHERS

3 credits

A laboratory approach helps the prospective teacher understand how children learn, do, and understand elementary

mathematics. Recent research examined to identify strategies that may resolve or prevent difficulties in learning mathematics.

EDC 218 (F, S)

GEOGRAPHY

3 credits

An examination of our earth: explains the planet's physical phenomena, highlights the relationship between people and their environment, and explores the pedagogical uses of this discipline for curriculum development. Required for majors in Comprehensive Social Studies, Elementary and Special Education; open to non-majors.

EDC 301 (F, S)

GENERAL METHODS AND CLASSROOM MANAGEMENT

3 credits

Methods of teaching pupils within the framework of a student-centered rather than a teacher-centered curriculum. Focuses on elements of the decision making process such as lesson planning, writing instructional objectives, questioning techniques, concept development, education procedures, and classroom management strategies. Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of Chair.

EDC 302 (F, S)

INSTRUCTIONAL MEDIA AND TECHNOLOGY

3 credits

Focuses on helping prospective teachers incorporate the modern technologies of instruction into their classroom practices. Emphasis on the impact of those technologies on human growth and development, and the ways that teachers can most effectively use them to bring about learning. Includes media design and production, still photography, television, and computers.

Areas of Study

EDC 304 (F, S)

DEVELOPMENTAL READING
3 credits

Provides an understanding of the developmental nature of the reading process and its relationship to the other language arts. Section 01 is directed to Elementary and Special Education majors; section 02 is directed to Secondary Education majors. Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 330 (F, S)

THE EDUCATION OF URBAN
POPULATIONS
3 credits

A multidisciplinary examination of the social, economic, political, and demographic aspects of urban populations as they affect formal education.

EDC 343 (F, S)

DEVELOPING AND ADJUSTING
INSTRUCTION TO MEET THE
NEEDS OF ELEMENTARY AND
SPECIAL NEEDS LEARNERS
3 credits

Designed to help the prospective elementary and special education teacher effectively modify and individualize instruction for children with a wide range of learning needs and at varying levels of development in both academic and non-academic areas. Involves the application of relevant theoretical concepts and principles of educational psychology. In-field tutoring required (two hours a week). Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 344 (F, S)

ASSESSING THE LEARNING
ABILITIES AND DISABILITIES OF
ELEMENTARY AND SPECIAL
NEEDS LEARNERS
3 credits

Enables prospective teachers to identify learning abilities and

disabilities of handicapped and non-handicapped children so that they may develop appropriate instruction that maximizes the probability that learning will occur. Focuses on both process and content areas. Evaluation of outcomes of instruction based on assessment. Field work required (Two hours a week).

Prerequisites: Junior standing and acceptance into candidacy for certification, or permission of the Chair.

EDC 470 (S)

THE PROFESSIONAL
SEMESTER—STUDENT TEACHING
9 credits

Provides the secondary education major with full time student teaching experience in a selected junior or senior high school. Under the direction of a certified cooperating teacher and a university supervisor, the student teaches for twelve weeks on a five-day-a-week, full day schedule. The student teaching experience is supplemented by a series of topical seminars. The student is required to make formal application to the student teaching program. Taken concurrently with EDC 471 and 472. Prerequisites: field experiences in education; EDC 102, 203, 204, 301 and 304; and the approval of associated major and education departments.

EDC 471 (S)

THE PROFESSIONAL
SEMESTER—EDUCATIONAL
MEDIA
3 credits

Application of appropriate media formats in educational and instructional settings. Emphasis on media design and production, use of overhead transparencies, still photography, drymounting, audio tapes, multimedia presentations, and television programs. Computers in education will also be examined. Taken concurrently with EDC 470

and 472. Prerequisite: acceptance into EDC 470.

EDC 472 (S)

THE PROFESSIONAL
SEMESTER—SPECIAL METHODS
3 credits

Topics: historical and current issues related to teaching of the subject, innovative approaches, computer applications, print and non-print materials related to the subject, curriculum developments in the field, issues of human development as they relate to teaching the subject, information resources and data bases in the subject, and teaching of reading and writing in the field.

EDC 474 (F, S)

THE PROFESSIONAL
YEAR—STUDENT TEACHING IN
ELEMENTARY EDUCATION
12 credits

For one semester of the Professional Year, the Elementary and Special Education major is engaged in student teaching in elementary education classrooms under the guidance of experienced teachers and a University supervisor. This experience takes place in either a public or private school in Philadelphia or the surrounding suburbs. Prerequisites: Acceptance into the Professional Year by July 1 or November 1 (the date immediately preceding the semester in which student teaching will begin); completion of all required courses with a 2.5 average or better in the major, and a 2.0 overall index; approval of the department faculty.

EDC 475 (F, S)

THE PROFESSIONAL
YEAR—TEACHING AND
RESEARCH METHODS I
3 credits

Course content focuses on current trends in educational research as they are applied to the art of teaching. Classroom management, mainstreaming, the integration of specific subject

fields in the elementary curriculum, and decisions concerning instructional strategies are examined from the perspective of the teacher/researcher. Taken concurrently with EDC 474.
Prerequisite: Acceptance in EDC 474

EDC 476 (F, S)
**THE PROFESSIONAL
YEAR—STUDENT TEACHING IN
SPECIAL EDUCATION**
12 credits

Elementary and Special Education majors engage in student teaching in special education classrooms servicing mildly, moderately, or severely mentally and/or physically handicapped children over the course of a 14 week period. Student teachers are supervised by University faculty and experienced teachers in private or public schools located in Philadelphia or surrounding suburbs. Prerequisites: Acceptance into the Professional Year by July 1 or November 1 (the date immediately preceding the semester in which student teaching will begin); completion of all required courses with a 2.5 average or better in the major, and a 2.0 overall index; approval of the faculty.

EDC 477 (F, S)
**THE PROFESSIONAL
YEAR—TEACHING AND
RESEARCH METHODS II**
3 credits

Course modules focus on data-based instruction, behavior management and instructional strategies for moderately and severely handicapped children. Sessions addressing legal issues, Music/Art/Physical Education, merger concepts (i.e., regular with special education), community resources, and career planning are inserted to meet state standards, programmatic orientation, and personal needs. Taken concurrently with EDC 476.

Prerequisite: Acceptance into EDC 476

ENGLISH

FACULTY

James A. Butler, Ph.D., *Chair*
Professors: Burke, Butler, Ellis, Fallon, Keenan, Millard, Seydow
Associate Professors: Fagan, Haberstroh, Hannum, Harty, Kleis, Lautz, Mollenhauer, Newton, Soven
Assistant Professors: Allen, Kling, Merians, Rao, Smith
Lecturers: Bartley, Bass, Cohen, Cornelison, Craig, Davis, Meredith, Oelschlegel, Oser, Tiedeken, Trachtenberg, Watts, Zenner
Poet-in-Residence: Meredith

FOUNDATION COURSES

Writing
ENG 107, 108
Literature
ENG 150

CORE COURSES

Approved sequences for Core I:
First course: ENG 160, 165, or 166.
Second course: ENG 201, 202, or 203. Third course: If you took 201, select one from 313, 320, 321, 335, 341, 343, 422, 423, 426, 427, 429, 430, 432. If you took 202, select one from 312, 324, 343, 355, 424, 432. If you took 203, select one from 311, 315, 335, 342, 343, 428, 432, 435.
Approved courses for Core II:
ENG 160, 165, 166, 201, 202, 203.

REQUIREMENTS

Required for Major in English: 15 courses; Dual Majors: 10 courses. English majors may choose one of several "majors within the major": (1) Liberal Arts; (2) English-Education; (3) Writing; (4) Dual

Majors, e.g., English-Accounting, English-Biology, English-Psychology. English majors may intern at advertising, public relations, publishing, and newspaper positions. See course description under ENG 461 for requirements.

The usual requirements for each program are as follows: (Exceptions require the approval of the Chair or Assistant Chair.)

- Liberal Arts: ENG 150; 201; 202; either 311 or 312 or 313; 320; 321; either 341 or 342 or 343; three period courses (choices include 422, 423, 426 through 432); 424; either 301 or 304 or 411 or 412; three English electives (not to include 107, 108, or more than one 160-level course).
- English-Education: ENG 201; 202; 203; 300; 304; 315; 320; 321; either 324 or 424; two American literature courses (choices include 341, 342, 343); either 352 or COM 354; one advanced writing course (choices include 205, 207, 303, 305, 306, 307, 308, COM 206); ENG 411. EDC 102, 203, 204, 301, 304, 470-472.
- Writing: ENG 150; either 201 or 202 or 203; 205; 320; 321; 311 or 312 or 313; 424; either 302 or 304; either 341 or 342 or 343; four writing courses (choices include ENG 207, 303, 305, 306, 307, 308, 309, 310, 461; COM 206, 302 or 303, 401); two English electives (not to include 107, 108, or more than one 160-level course).
- Dual Major: Individual program to be worked out in consultation with Chair or Assistant Chair.

COURSE DESCRIPTIONS

ENG 107 (F, S)
COLLEGE WRITING I
3 credits **Foundation**
Instruction in the writing process, in invention, and in necessary grammatical and organizational

Areas of Study

skills. Emphasis on writing from personal experience.

ENG 108 (F, S)
COLLEGE WRITING II
3 credits **Foundation**

Instruction in planning and executing writing assignments common to all disciplines. Emphasis on essays about readings and on the library paper. Prerequisite: ENG 107 or waiver of it.

ENG 150 (F, S)
THE LITERARY EXPERIENCE
3 credits **Foundation**

Reading, analysis, and discussion of the three prominent forms of literary expression—drama, poetry, and prose fiction—with attention to the cultural context of works written from the ancient world to the present. Short critical papers, some requiring use of secondary sources.

ENG 160 (F, S)
LITERATURE AND THE SEXES
3 credits **Core I, II**

Examines literature as a reflection of the different ways women and men are shaped by their society and of the ways they have related to each other in the private and public spheres. Short critical papers.

ENG 165
LITERATURE AND SOCIETY
3 credits **Core I, II**

Fiction, poetry, and drama considered as reflections of a particular social and political environment. The relationship between the art work and the intellectual and cultural background that produced it. Short critical papers.

ENG 166 (F, S)
AMERICAN DREAMS AND
AMERICAN NIGHTMARES
3 credits **Core I, II**

A study of the literary expression of the pioneer "dreams" of progress and freedom, and the "nightmares" they became in the

face of war, poverty, discrimination, and industrial and technological revolutions. Readings include fiction, poetry, and drama. Short critical papers.

ENG 201 (F, S)
THE EXPERIENCE OF POETRY
3 credits **Core I, II**

A study of the uses of language in English poetry—meter, metaphor, symbol, and other linguistic features—and of the major conventional forms of English poetry.

ENG 202 (F, S)
THE EXPERIENCE OF DRAMA
3 credits **Core I, II**

A study of the development of the dramatic arts of comedy and tragedy from the ritual drama of Greece to the realism and naturalism of the 20th Century.

ENG 203 (F, S)
THE EXPERIENCE OF PROSE
FICTION
3 credits **Core I, II**

Reading, analysis, and discussion of prose fiction.

ENG 205 (F, S)
HOW A WRITER WORKS
3 credits

A course that permits students to develop talent in various kinds of writing: essays, articles, reviews. Attention to a writer's methods and resources. Prerequisite: ENG 108.

ENG 207 (F, S)
CREATIVE WRITING I
3 credits

Workshop in the writing of fiction and verse. Prerequisite: ENG 205 or permission of instructor.

ENG 243 (F)
RELIGIOUS ATTITUDES IN
MODERN LITERATURE
3 credits
Identical with REL 243.

ENG 300 (S)
UNDERSTANDING THE WRITING
PROCESS
3 credits

Students examine their own writing process in the light of discussion of readings on topics such as: how writing connects with thinking; how proficient writers discover ideas, plan messages, and revise them; how the writing process changes in the world of work; how to supervise or instruct others in writing.

ENG 301 (F 1989, S 1991)
HISTORY OF THE ENGLISH
LANGUAGE
3 credits

Development of modern English from Old and Middle English; dialects and dialect geography.

ENG 302 (S)
LANGUAGE AND PREJUDICE
3 credits

A study of how language affects the way we view ourselves and others in our culture. Case studies of language in relation to sexism, racism, and politics, supplemented by introductory concepts of language systems and stylistic analysis.

ENG 303 (F, S)
WRITING FOR BUSINESS
3 credits

Provides instruction in planning and executing effective business writing. Students learn to write the documents required of them as professionals: letters, resumes, memos, proposals, abstracts, and reports. Prerequisites: ENG 108, junior or senior status.

ENG 304 (F)
THE GRAMMARS OF ENGLISH
3 credits

History of the English language and introduction to modern linguistic systems (traditional, structural, transformational) as applicable to selected secondary school grammar texts.

ENG 305-306 (F, S)
CREATIVE WRITING II, III
3 credits
Workshops in the writing of fiction and verse. Prerequisites: ENG 207 and permission of the instructor.

ENG 307
PLAYWRITING
3 credits
Study of the art of playwriting from the traditional and contemporary point of view. Guided writing of a one-act play.

ENG 308 (F)
PROFESSIONAL WRITING
3 credits
Directed practice in writing feature articles, speeches, public relations materials, advertisements, pamphlets, and brochures. Intended for students interested in careers as professional writers for business and industry, either in an in-company or free-lance basis. Prerequisite: ENG 205 or permission of instructor.

ENG 309 (S)
TECHNICAL AND SCIENTIFIC WRITING
3 credits
Directed practice in writing technical reports, feasibility studies, proposals, abstracts, oral report outlines, and in using technical reference materials. Intended for students interested in improving writing in technical and scientific fields.

ENG 310 (S 1990, S 1992)
EDITING AND PUBLISHING
3 credits
Workshop approach to provide students with experience in judging manuscripts, editing copy, proofreading, typographical design, and production. Introduction to desktop publishing. Some field trips to printing and graphic arts centers. Guest lectures by practicing professionals.

ENG 311 (S)
CONTEMPORARY BRITISH AND AMERICAN NOVEL
3 credits **Core I**
Selected major novelists of the 20th Century in England and America. Structure and trends.

ENG 312 (F)
READINGS IN MODERN DRAMA
3 credits **Core I**
Selected plays of the modern theatre from Ibsen to Ionesco and other contemporary dramatists.

ENG 313 (F)
CONTEMPORARY POETRY
3 credits **Core I**
An examination of representative 20th century poetic practice in English.

ENG 315 (F)
YOUNG ADULT LITERATURE
3 credits **Core I**
Aimed at preparing prospective and actual teachers, librarians, and parents to understand and to direct the reading of young adults. Attention will be paid to the reading and discussion of contemporary young adult fiction representing a variety of themes and genres. Other topics include adolescent psychology, the history and development of young adult literature, current trends in young adult literature, and the young adult in film and other mass media.

ENG 320-321 (F, S)
THE LITERATURE OF ENGLAND
3-6 credits **Core I**
Survey course in English literature showing development in types and forms. Fall: *Beowulf* to Blake. Spring: since 1800.

ENG 324 (F, S)
SHAKESPEARE'S ART AND TIMES
3 credits **Core I**
Readings in Shakespeare's plays, emphasizing his success as a writer for the stage. Some consideration of the cultural background. A course designed

with the non-English major in mind.

ENG 335 (F, S)
WOMEN WRITERS
3 credits **Core I**
This course examines women's literary tradition by surveying works of women writers from several historical periods.

ENG 341 (F)
AMERICAN LITERATURE (to 1860)
3 credits **Core I**
Literary historical movements of the period; major figures include Irving, Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

ENG 342 (S)
AMERICAN LITERATURE (1860-1900)
3 credits **Core I**
Rise of realism; naturalism. Figures include Whitman, Twain, Dickinson, Howells, James, Chopin, Crane, and Dreiser.

ENG 343 (F, S)
AMERICAN LITERATURE: 20th CENTURY
3 credits **Core I**
Figures include: Hemingway, O'Neill, Fitzgerald, Faulkner, Frost, Eliot, Steinbeck, Porter, Welty, O'Connor, Ellison, Malamud, and Bellow.

ENG 350-351
DRAMA WORKSHOP
3 credits
Theory and practice in the arts of acting and directing for the theatre; brief historical perspectives and graduated individual and/or group work on speeches and scenes; specific assignments and projects designed to meet the needs of the beginning or advanced student. May be repeated for credit.

ENG 352
ORAL INTERPRETATION OF PROSE AND POETRY
3 credits
Theory and practice in the training of the speaking voice for

Areas of Study

the demands of reading aloud; graduated work in the preparation, interpretation, and public performance of literary and dramatic works.

ENG 354

ORAL COMMUNICATION

(This course is now offered as Communication 354.)

ENG 355 (S 1990, S 1992)

THEATRE NOW

3 credits

Core I

Study of genres and trends in contemporary theatre.

ENG 360 (F)

WRITING INSTRUCTION: THEORY AND PRACTICE

3 credits

The study of peer tutoring strategies and the rhetoric of academic prose

ENG 411 (S)

LITERARY THEORY AND CRITICISM

3 credits

An introduction to the theory of literary structure and literary value; exercises in the description and evaluation of literary works; reports on assigned readings.

ENG 412 (F)

HISTORY OF LITERARY CRITICISM

3 credits

Readings and discussion of major critical texts in historical setting. Short critical papers.

ENG 422 (S 1990, F 1991)

CHAUCEER AND HIS WORLD

3 credits

Core I

Readings in *The Canterbury Tales*: short selections from medieval drama, romance, and allegory.

ENG 423 (S 1990, F 1991)

RENAISSANCE LITERATURE

3 credits

Core I

The intellectual, political, religious, and scientific ferment that accompanied the birth of Humanism and the death of Medieval order as expressed in the works of More, Machiavelli,

Shakespeare, Donne, Bacon, and Milton.

ENG 424 (F, S)

SHAKESPEARE

3 credits

Core I

Intensive study of selected poems and plays, including tragedies, comedies, and chronicles, exploring the dramatic, literary, and historical dimensions of his art.

ENG 426 (F 1989, S 1991)

MILTON IN AN AGE OF REVOLUTION

3 credits

Core I

The works of the great English poet as they reflect the conflicting values of the Renaissance and Reformation, presented against a backdrop of Civil War and the short-lived English Republic.

ENG 427 (F 1990, S 1992)

ENGLISH LITERATURE OF THE RESTORATION AND 18th CENTURY

3 credits

Core I

The historical approach will include the chief figures: Dryden, Pope, Swift, Addison and Steele, Johnson, and their more outstanding contemporaries.

ENG 428 (F 1989, S 1991)

THE ENGLISH NOVEL TO 1900

3 credits

Core I

The roots of modern fiction. Historical development of the novel from Defoe to Hardy. Analysis of structures and themes.

ENG 429 (F 1990, S 1992)

ENGLISH LITERATURE OF THE ROMANTIC PERIOD

3 credits

Core I

An historical survey of the lyric and narrative poets Coleridge, Wordsworth, Byron, Shelley, Keats; their practice and theory. Pertinent references to their contemporaries.

ENG 430 (S 1990, F 1991)

ENGLISH LITERATURE OF THE VICTORIAN PERIOD

3 credits

Core I

The chief literary figures of the period—Tennyson, Arnold, Browning, Hopkins, Carlyle, Newman, Ruskin—and their contemporaries placed against their milieu. Lyric and essay stressed.

ENG 432 (F 1989, S 1991)

MODERN BRITISH LITERATURE

3 credits

Core I

Beginning with Shaw and Yeats and covering the major figures up to the present. Drama, fiction, poetry with some attention to the cultural, social, and artistic influences.

ENG 435 (F 1990, S 1992)

WOMEN, LITERATURE, AND CULTURE

3 credits

Core I

A study of feminist literary theory and an application of feminist literary criticism to a major writer, coterie, movement, or era.

ENG 461 (F, S)

INTERNSHIP

3 credits

Students may intern at advertising, public relations, publishing and broadcasting companies. Working approximately 15 hours a week under professional supervision, they learn how to apply their education to the everyday demands of these positions. Required: Junior or senior standing, 2.75 grade point average, and recommendation of the internship coordinator, Professor John Keenan.

ENG 462 (F, S)

INTERNSHIP

6 credits

Intern will work approximately 25-30 hours each week.

Areas of Study

FINE ARTS

FACULTY

George K. Diehl, Ph.D., *Chair Professor*: Diehl
Associate Professor: White
Assistant Professors: Hanes, Lang, Ridington

ART

CORE COURSES

Approved sequences for Core I:

- Asian concentration (ART 101, 207, 308).
- Architecture concentration (ART 101, 204, 304).
- Art History concentration (ART 101, 209, and either 309 or 310).

Approved courses for Core II:
 ART 101, 204, 206, 207, 209, 304, 308, 309, 310.

REQUIREMENTS

Required for Major in Art History:
 13 courses

- ART 101, 151-152, 311, 312, 313, 315, 317, 319, 470
- Any two studio courses.
 (Additional studio courses available at Chestnut Hill College.)
- One art history elective

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in art history. Those anticipating graduate work are also advised to select courses in German, French, Italian, Latin, and Greek as preparation for advanced studies. The art history major is to consider ART 151-152 as prerequisite for other art history courses.

For the general student, courses in art history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

COURSE DESCRIPTIONS

ART 101 (F, S)
ELEMENTS OF ART
 3 credits **Core I, II**
 Analysis of the basic elements of painting, sculpture and architecture, techniques involved and materials utilized. Concentration on compositional analysis of a painting to result in a critical paper. Introduction to major stylistic periods in the Western Tradition.

ART 151-152 (F, S)
HISTORY OF ART
 3-6 credits
 Chronological survey of the painting, sculpture, architecture, and minor arts of World Cultures with special emphasis on Western civilization. Determination and recognition of styles and stylistic development through concentrated study of the outstanding monuments of each epoch. Fall term: beginnings to 1400. Spring term: 1400 to present.

ART 204
HISTORY OF ARCHITECTURE
 3 credits **Core I, II**
 Chronological study of the growth and development of the major architectural styles in Western Europe, their interrelation and the manner in which they reflect the social needs of the times. Overview of world architecture.

ART 206
PAINTING FROM DAVID TO VAN GOGH
 3 credits **Core II**
 Study of the stylistic changes and examination of the methods and subject-matter of pictorial representation from the end of the 18th century to the end of the 19th century.

ART 207
ASIAN ART
 3 credits **Core I, II**
 Explores the evolution of the visual arts in India, Sri Lanka and Southeast Asia from early history to modern times. Navigating the course of art and culture along the historic Spice Route as Indian merchants, monks, and artisans followed the lure of precious metals and spices to exotic Southeast Asia.

ART 209
AMERICAN ART
 3 credits **Core I, II**
 Chronological survey of the painting, sculpture, architecture, and the minor arts in America from colonial times to the present. Particular emphasis on monuments in the Philadelphia area with field trips to include the du Pont Winterthur Museum.

ART 304
HISTORY OF AMERICAN ARCHITECTURE
 3 credits **Core I, II**
 Study of ethnic diversity in the creation of architectural traditions in the New World. Building techniques, developments, innovations. Historical development studied in light of changes in technology, industrialization, urban concentrations and human needs.

ART 308
THE ARTISTIC GLORY OF CHINA AND JAPAN
 3 credits **Core I, II**
 A study of the visual splendor of Chinese art and culture from the Early Bronze Age to the Cultural Revolution of the 20th century. An examination of the golden ages of visual arts and dynamic creativity that brought Japan to high international status in the 20th century.

Areas of Study

ART 309

ROME—THE POLITICS OF ART
3 credits **Core I, II**

The beginning of art as a political tool with multiple meaning and content seen in the painting, sculpture and architecture of Rome. Classical versus non-classical as concepts developing from ancient times through the Renaissance to the present. Field trips to buildings of architectural relevance and museums in the area.

ART 310

PARIS—ART AND RELIGION
3 credits **Core I, II**

French art from the fall of Rome to the 19th century emphasizing art forms of Northern Europe in cathedral building and palace construction. The illuminated manuscript, the development of panel painting and graphic art. Development of systems for evaluation and techniques for critical evaluation. Field trips to appropriate buildings and museums in the area.

ART 311

ANCIENT ART
3 credits

Study of selected early civilizations which contributed to the growth of western tradition in the arts. Concentrated study of the artistic development of the major Mediterranean cultures, terminating with the early Christian era of the fourth century.

ART 312

MEDIEVAL ART
3 credits

Chronological study of the eastern and western aspects of Pagan and Christian art from the late Imperial Roman period to the decline of the Gothic tradition in the 15th century.

ART 313

THE RENAISSANCE IN ITALY
3 credits

A study of the civilization of the Renaissance with concentration

on the architecture, painting, and sculpture of Italy between 1200 and 1550. Stress will be on the works of Giotto, Bramante, Michelangelo, Raphael, Leonardo da Vinci, and Titian.

ART 315 (F)

BAROQUE AND ROCOCO ART
3 credits

Styles, trends, and major forces in the arts of Western Europe in the 17th and 18th centuries. Baroque splendors from the Baldacchino of Bernini to the Palace of the Sun King. Rococo delights from the Bishop's Palace at Wauzbourg to the churches of Vierzehnheiligen and Wies.

ART 317

NINETEENTH CENTURY ART
3 credits

A study of the major artistic forces in selected European countries in light of the Social and Industrial Revolutions. Focuses on new forms, materials, and techniques.

ART 319

TWENTIETH CENTURY ART
3 credits

A tracing of the divergent influences upon contemporary art in Europe and America from the late 19th century beginnings to the immediate present.

ART 377 (S)

HISTORY OF GRAPHIC ART
3 credits

Chronological examination of graphic art from its inception in the 15th century to the present. Examination of original prints from the resources of the La Salle Study Collection and the Philadelphia Museum of Art. Prerequisite: permission of instructor. Written research project.

ART 470

RESEARCH TOPICS IN ART HISTORY
3 credits

Topics vary from semester to semester. Required of art history major and open to the qualified general student. Prerequisites: junior standing and permission of instructor.

STUDIO COURSES:

ART 350-351 (F, S)
OIL PAINTING

3-6 credits
Introduction to basic techniques of painting, drawing, and perspective. Preparation of canvas and media. Exercises in indoor and outdoor painting.

ART 352-353 (F, S)
PRINT MAKING

3-6 credits
Introduction to basic print processes. Relief, intaglio, collograph printing, followed by mixed-media projects. Experimentation encouraged.

MUSIC

CORE COURSES

Approved sequences for Core I:

- Master Composers concentration (MUS 101, 204, 304).
- Instrumental Music concentration (MUS 101, 205, 305).

Approved courses for Core II:
MUS 101, 203, 204, 205, 304, 305.

REQUIREMENTS

Required for Major in Music: 12 courses

- In Music History: Six courses from the Music History section.
- In Theory and Composition: MUS 105, 106, 214-215, 225, 301.

Areas of Study

Students are advised to elect related courses in other disciplines that will be meaningful in enriching their concentration in music. Those anticipating graduate work in musicology are also advised to elect courses in German, French, Italian, Latin and Greek as preparation for advanced studies.

The music major is expected to demonstrate a basic keyboard facility. It is desirable that such facility be achieved before entering the program or acquired through private study in the early stages of the program. Further, the music major is to adhere to the following establishment of prerequisites: MUS 105 and 106 as prerequisite for other courses in theory and composition. Students who feel qualified to take a placement examination in MUS 105 and 106 may arrange to do so. Any required theory courses not given at La Salle are taken at Chestnut Hill College.

COURSE DESCRIPTIONS

Music History

For the general student, courses in music history do not carry prerequisites; however, the nature of their content will vary in degree of sophistication.

MUS 101 (F, S)
THE ART OF LISTENING
3 credits **Core I, II**
An exploration of the ways and means of musical composition as a denominator for experiencing music from different time periods and cultures. Popular and classical music, American and European, old and new.

MUS 110
JAZZ
3 credits
The evolution of jazz as a style and form, including Dixieland, Ragtime, Swing, Boogie, Bop, Cool,

Funky and recent jazz-rock innovations.

MUS 201
ANATOMY OF THE OPERA
3 credits
Concentrated study of selected works representing the stylistic and historical development of the opera. *Orpheus, Marriage of Figaro, Carmen, Otello, Porgy and Bess.*

MUS 203
AMERICA'S MUSIC
3 credits **Core II**
From Plymouth Rock to Woodstock—the cultivated and vernacular traditions in American music. New England psalmody, the Yankee tunesmiths, the camp meetings, minstrelsy, the rise of musical culture in the 19th century, the popular and classical music of the 20th century.

MUS 204
MASTER COMPOSERS: THE CLASSICISTS AND THE ROMANTICISTS
3 credits **Core I, II**
The Classical style of Haydn, Mozart, and Beethoven. The Romantic Movement in Germany, France, and Italy. Major Works, principal forms, evolving concepts.

MUS 205
MINIATURES IN JAZZ AND THE CLASSICS
3 credits **Core I, II**
An exploration of the chamber music medium in both popular and classical styles. Improvisational and non-improvisational approaches. The different social backgrounds of the two principal areas. The likenesses and the differences of the musical end-results.

MUS 211 (F)
EIGHTEENTH CENTURY CLASSICAL MUSIC
3 credits
The development of the classical style in Western European music from the age of the rococo to the

time of Beethoven, with special emphasis upon the contributions of Haydn and Mozart.

MUS 212 (S)
NINETEENTH CENTURY ROMANTIC MUSIC
3 credits
A study of 19th-century developments in music. The symphonic poem, art-song, and music-drama. Expansion of instrumental technique; development of orchestral and chamber music forms; growth of nationalism.

MUS 213 (S)
TWENTIETH CENTURY MUSICAL REVOLUTIONS
3 credits
The emergence of new developments in musical composition in the 20th century. Examination of techniques and styles from impressionism to electronic music.

MUS 221
TOPICS IN THE HISTORY OF MUSIC
3 credits
Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

MUS 304
MASTER COMPOSERS: THE IMPRESSIONISTS AND THE MODERNS
3 credits **Core I, II**
The cross-pollination of poetry, art, and music leading to the impressionistic style of Claude Debussy. The spirit of artistic revolutions in the 20th century that produced the major changes in music in our own time.

MUS 305
THE SYMPHONY
3 credits **Core I, II**
An examination of the development of one of the musical world's most widely cultivated forms. The growth of the orchestra and orchestral

Areas of Study

instruments from simple ensembles of the eighteenth century to the mammoth post-romantic orchestra of the late nineteenth and early twentieth centuries. The emergence of the conductor. Masterworks of principal European and American composers.

MUS 311 (F)
EARLY MUSIC
3 credits

The evolution of sacred and secular music from the early Christian church to the time of Bach. The great periods of vocal music, the creation of new forms, and the development of dramatic and instrumental music.

Theory and Composition

For the general student, courses in theory and composition do not carry prerequisites; however, the general student who has not had MUS 105 and 106 is advised to use discretion in the selection of other theory and composition courses.

MUS 105 (F)
FUNDAMENTALS OF MUSIC THEORY
3 credits

Introduction to the basic theoretical concepts of music: staff notation, calligraphy, scales, key signatures, intervals, chords, rhythm. Elementary ear training stressing the ability to take melodic and rhythmic dictation and to sing a simple melody at sight. No prior knowledge of music necessary.

MUS 106 (S)
THEORY IN PRACTICE
3 credits

Creative implementation of the theoretical foundations and principles of musical structures. Prerequisite: ability to read music or permission of instructor.

MUS 214-215 (F, S)
HARMONY
3-6 credits

Fall: Basic elements of harmony as found in tonal music: chord succession, voice leading, non-harmonic tones, figured bass. Spring: Stylistic analysis of representative works from the baroque through the romantic period, concentrating on the evolution of harmonic language. Creative work in imitation of each style studied. Open to the general student with permission of instructor.

MUS 216
TOPICS IN THE THEORY OF MUSIC
3 credits

Subject matter will vary from semester to semester. Open to the general student and to the music major. May be repeated for credit.

MUS 218
INTRODUCTION TO ELECTRONIC MUSIC SYNTHESIS
3 credits

An introduction to the development and application of electronic music from Pierre Schaeffer to Philip Glass. Analog and FM Digital synthesis will be studied.

MUS 225 (F)
ORCHESTRATION
3 credits

A study of the properties, capacities, and functions of orchestral instruments and voices. Analysis of scores and practices of orchestration.

MUS 301 (S)
COUNTERPOINT
3 credits

Principles and techniques of linear writing. Introduction to canon and fugue. Exercises in construction on progressive levels. Open to the general student with permission of instructor.

Applied Music

MUS 151
APPLIED MUSIC
1 credit

Available to the general student as well as the music major in accordance with the following conditions: Students applying for academic credit for study of an instrument (limited to keyboard, classical guitar, and all instruments of the standard symphony orchestra) or voice must demonstrate the ability to undertake such study at least at an intermediate level. Arrangements to work with a teacher of the applicant's choice and the financial obligations for such study are the responsibility of the student. At the close of the semester in which the student is applying for credit, the teacher will submit a written report on the student's progress. The student will demonstrate his or her accomplishment in a proficiency performance arranged by the department and will be graded on a credit/no credit basis. Upon successful demonstration of achievement, the student will receive one academic credit, which will count as elective credit and will not be counted toward the major. A permissible total of six credits will be allowed. Students wishing to apply for applied music credit may register for MUS 151 upon approval of the department.

Collegium Musicum: A vocal and instrumental performing ensemble devoted to the study of musical repertory of all periods which is designed for small groups.

Areas of Study

FOREIGN LANGUAGES AND LITERATURES

FACULTY

Bernhardt G. Blumenthal, Ph.D.,
Chair
Professors: Blumenthal,
Brownstein, Rudnytzky
Associate Professors: DiMarco,
Mall, McCann, Morocco, Perfecky
Assistant Professor: Angerosa
Lecturer: Itabashi

FOUNDATION COURSE

LIT 150

CORE COURSES

Approved Language sequences for
Core I:
Language 101, 102, 201. Language
201, 202, 301. Language 301, 302,
300-400 level. The sequence you
will follow depends upon your
initial placement according to
your previous language training.

Approved Language options for
Core II:
Language 201, 202 or Language
301, 302.

Approved Literature sequences in
Foreign Literatures for Core I:
French 311, 312, and one from
FRN 411, 425, 431, 447, 453, 455,
457. German 311, 312, and one
from GER 405, 421, 431, 441, 451,
480, 481. Italian 311, 312, and one
from ITL 331, 332, 451, 480, 481.
Spanish 311, 312, and one from
SPN 313, 405, 411, 415, 419, 442,
443, 448, 457, 480. To follow one of
these sequences, you must have a
good reading knowledge of the
language.

Approved Literature options in
Foreign Literatures for Core II:
FRN 311, 312; GER 311, 312; ITL
311, 312; or SPN 311, 312.

COURSE DESCRIPTION

LIT 150

MODERN EUROPEAN AND LATIN
AMERICAN WRITERS

3 credits

Foundation

An examination of modern French,
German, Hispanic, Italian and
Russian literatures in English
translation. A study of attempts
by representative men and
women to comprehend their
times and their cultures and to
provide literary expression to
their understandings of modern
life. Selected works of prose,
poetry and drama. Short critical
papers.

Descriptions of major programs
follow; for dual majors, greater
flexibility in individual programs
can be arranged in consultation
with departmental advisor.

CLASSICAL LANGUAGES

REQUIREMENTS

Required for Major in Classical
Languages: 14 courses

- Ten courses in Latin (beyond
100-level)
- Four courses in Greek

COURSE DESCRIPTIONS

Greek

GRK 101-102

ELEMENTARY GREEK

3-6 credits

Core I

An introductory study of forms
and syntax; includes reading and
translation exercises and frequent
practice in prose composition.

GRK 201-202

INTERMEDIATE GREEK

3-6 credits

Core I, II

Review of elementary grammar;
readings of selected prose and
poetry.

GRK 301-302

GREEK READINGS

3-6 credits

Core I, II

Readings selected to meet the
individual needs of the students
from Homer, lyric poetry, the
Greek New Testament, Plato and
the drama. May be repeated for
credit.

Latin

LAT 101-102

ELEMENTARY LATIN

3-6 credits

Core I

Thorough grounding in forms and
vocabulary.

LAT 201-202

INTERMEDIATE LATIN

3-6 credits

Core I, II

Review of elementary grammar;
readings of selected prose and
poetry.

LAT 301-302

LATIN READINGS

3-6 credits

Core I, II

Readings selected to meet the
individual needs of the students
from Cicero, Livy, Horace, Vergil,
Catullus, Ovid, Martial, patristic
Latin, medieval Latin, Roman
comedy and Latin inscriptions.
May be repeated for credit.

RELATED STUDIES:

CLS 211 (F)

CLASSICAL MYTHOLOGY

3 credits

A study of the legends of Greece
and Rome: what they are, how
they have survived, their value to
us. The legend of Troy
emphasized. Audio-visual
presentations, discussions, and
research. All readings in English.

Areas of Study

CLS 212 (S)

CLASSICAL DRAMA

3 credits

Greek and Roman tragedies and comedies in English translation discussed and interpreted in their historical and social environment and compared to modern and contemporary drama. No previous knowledge of Greek and Latin is required.

CLS 311 (F)

GREEK MASTERPIECES IN ENGLISH

3 credits

Some significant works in Greek literature read in English translation and interpreted in terms of their original setting. Application made to contemporary problems. No knowledge of Greek required.

CLS 312 (S)

LATIN MASTERPIECES IN ENGLISH

3 credits

The more important works in Latin literature read and discussed in terms of the history of the times. Their influence on later literature noted. No knowledge of Latin required.

MODERN LANGUAGES

FRENCH

REQUIREMENTS

Required for Major in French: 14 courses

- Ten French courses beyond 100-level (two from 400 list)
- Four courses in second language

COURSE DESCRIPTIONS

FRN 101-102

ELEMENTARY FRENCH

3-6 credits

Core I

A study of the phonetics and grammar of French with graded work in reading, oral practice, and composition. One required hour per week in the Language Laboratory.

FRN 201-202

INTERMEDIATE FRENCH

3-6 credits

Core I, II

Review exercises in comprehending, speaking, reading and writing French. Cultural information on France. Weekly assignments in the Language Laboratory.

FRN 301-302

STRUCTURE AND STYLE

3-6 credits

Core I, II

Review of grammatical principles and their practical application in written exercises and in the translation of standard English prose into French.

FRN 303-304

CONVERSATION AND COMPOSITION

3-6 credits

Oral and written practice aimed at providing students with varied experiences in communicating in French while improving their pronunciation, intonation, and fluency.

FRN 311-312

SURVEY OF FRENCH LITERATURE

3-6 credits

Core I, II

Readings and discussions in French of selected literary works from the beginnings to 1800 and from 1800 to the present.

FRN 321-322

CIVILIZATION

3-6 credits

The first semester treats the political, social, intellectual, and artistic developments in France from earliest times to 1870, while

the second semester emphasizes these cultural structures as they exist in contemporary French society. Lectures and readings serve as a basis for class discussion in French.

FRN 401 (S)

OLD FRENCH LANGUAGE AND LITERATURE

3 credits

The history of the formation of the French language, with special attention to the phonological and morphological development from Latin. Literary study, using texts in the original, of Alexis, Roland, Guigemar, Aucassin, Vergi, and the poetry of Villon.

FRN 411 (F, S)

SIXTEENTH-CENTURY LITERATURE

3 credits

Core I

Readings and reports on works of representative authors of the 16th century.

FRN 425 (F, S)

CLASSICAL THEATRE

3 credits

Core I

A study of the plays of Corneille, Moliere, and Racine.

FRN 431 (F, S)

EIGHTEENTH-CENTURY LITERATURE

3 credits

Core I

Readings and reports on works of representative authors of the 18th century.

FRN 447 (F, S)

NINETEENTH-CENTURY NOVEL

3 credits

Core I

A study of some of the major novels of the 19th century, including works by Constant, Stendhal, Balzac, Flaubert, Zola, and Huysmans.

FRN 453 (F, S)

MODERN POETRY

3 credits

Core I

A study of French poetry from Nerval and Baudelaire through the symbolists and surrealists to the present.

Areas of Study

FRN 455 (F, S)**MODERN THEATRE**

3 credits

Core I

A study of the plays of Claudel, Cocteau, Giraudoux, Anouilh, Montherlant, Sartre, Camus, Beckett, Ionesco, and Genet.

FRN 457 (F, S)**MODERN NOVEL**

3 credits

Core I

A study of the novels of Proust, Gide, Bernanos, Malraux, Sartre, Camus, and Robbe-Grillet.

GERMAN

REQUIREMENTS

Required for Major in German: 14 courses

- GER 401, 431, 480 or 481
- Seven electives in German (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

GER 101-102**ELEMENTARY GERMAN**

3-6 credits

Core I

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Weekly audio-oral laboratory assignments.

GER 201-202**INTERMEDIATE GERMAN**

3-6 credits

Core I, II

Review exercises in comprehending, speaking, reading and writing German. Cultural information on German-speaking countries. Weekly assignments in the Language Laboratory.

GER 209-210 (S)**TRANSLATION OF SCIENTIFIC AND TECHNICAL GERMAN**

3 credits

Translation of selected scientific and technical articles from contemporary journals in bio-medicine, chemistry, geology,

computer science, and physics. Emphasis on the practical aspects of translating; training in use of specialized dictionaries and reference sources.

GER 301-302**CONVERSATION AND COMPOSITION**

3-6 credits

Core I, II

Oral practice for the development of skill in conversation. Special attention to remedial work in pronunciation and diction.

GER 311-312**THEMES IN GERMAN LITERATURE**

3-6 credits

Core I, II

Major themes from medieval to modern times (love, death, suffering, political, and social involvement). Practice in conversation and composition. May be repeated for credit. Readings and discussions in German.

GER 320 (F, S)**STUDIES IN GERMAN CULTURE**

3 credits

Analysis of the contemporary culture of the two Germanies: life styles, national characteristics, folk tradition. Emphasis on the Germans' view of themselves, their view of their recent past. Focus varies from semester to semester. May be repeated for credit.

GER 330 (F, S)**GERMAN SCRIPT**

3 credits

Development of the ability to read texts in German Script from mid-20th century Europe to 18th century America. Brief history of German Script.

GER 401 (F)**HISTORY OF THE GERMAN LANGUAGE**

3 credits

The German language from its beginning to the present; particularly, the development of sounds, vocabulary, and the

formation of standard High German.

GER 405 (F, S)**MEDIEVAL LITERATURE**

3 credits

Core I

Study and discussion of German literature from its beginnings to the end of the medieval period.

GER 421 (F, S)**LITERATURE OF THE 17th AND 18th CENTURIES**

3 credits

Core I

Study and discussion of the literature of the 17th and 18th centuries excluding the works of Goethe and Schiller.

GER 431 (F, S)**THE CLASSICAL AGE**

3 credits

Core I

Study and discussion of the literature of the classical age with special attention to the works of Goethe and Schiller.

GER 441 (F, S)**LITERATURE OF THE 19th CENTURY**

3 credits

Core I

Study and discussion of the literature of romanticism, realism, and naturalism.

GER 451 (F, S)**LITERATURE OF THE 20th CENTURY**

3 credits

Core I

Study and discussion of modern German literature from 1880 to the present.

GER 480-481**SEMINAR**

3-6 credits

Core I

Topics of investigation vary from semester to semester. Readings, reports, and discussion in a selected genre (novel, drama, lyric, short story). Seminar paper.

Areas of Study

ITALIAN

REQUIREMENTS

Required for Major in Italian: 14 courses

- ITL 312, 451, 480 or 481
- Seven electives in Italian (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

ITL 101-102

ELEMENTARY ITALIAN

3-6 credits

Core I

An introductory study of the phonetics and grammar of the language including graded work in reading and composition. Intended for those who are beginning the study of Italian. One required hour per week in Language Laboratory.

ITL 201-202

INTERMEDIATE ITALIAN

3-6 credits

Core I, II

Exercises in composition, grammatical review, and selected readings with a view to introducing the student to the literature and civilization of the country.

ITL 301-302

LANGUAGE AND STYLE

3-6 credits

Core I, II

Training in the use of correct idiomatic Italian and in the practical application of grammatical principles with a view toward improving the student's pronunciation and increasing his active vocabulary. Frequent use of audiovisual aids.

ITL 311-312

SURVEY OF ITALIAN LITERATURE

3-6 credits

Core I, II

A comprehensive study of Italian literature from the Middle Ages to modern times, with comparative references to European

literatures. Readings and discussions in Italian.

ITL 320 (F, S)

STUDIES IN ITALIAN CULTURE

3 credits

Analysis of contemporary Italian culture: life styles, national characteristics, folk tradition. Emphasis on the Italians' view of themselves, their place in and contributions to contemporary European civilization. Focus varies from semester to semester. May be repeated for credit.

ITL 331-332

READING LIST

3-6 credits

Core I

Gives students an acquaintance with excerpts of Italian writers from Saint Francis of Assisi to the poets of knighthood (Pulci, Boiardo, Ariosto, Tasso).

ITL 401 (F, S)

HISTORY OF THE ITALIAN LANGUAGE

3 credits

Deals with the Italian language in its origins in the 7th century up to modern times. By means of a very few philologic and glottologic rules, the student will acquire a knowledge of the origins and transformation of Italian from Vulgar Latin, in chronological progression.

ITL 451 (F, S)

MODERN AUTHORS

3 credits

Core I

Includes a survey of Italian narrative and poetic production in the late 19th century and in the 20th century.

ITL 480-481

SEMINAR

3-6 credits

Core I

Topics of investigation vary from semester to semester. Readings, reports and discussions of a selected genre (novel, drama, short story), with special reference to the works of Dante, Leopardi, and Manzoni. Seminar paper.

JAPANESE

JPN 101-102

ELEMENTARY JAPANESE

3-6 credits

An introductory study of the Japanese language; provides practice in comprehending, speaking, reading, and writing the language, as well as cultural information. Stress is on the development of conversational skills. Introduction to the KATAKANA writing system.

RUSSIAN

REQUIREMENTS

Required for Major in Russian: 14 courses

- RUS 301-302 or 303-304, 401-402; SLA 403-404
- Four Russian or Slavic electives (beyond 100-level)
- Four courses in second language

COURSE DESCRIPTIONS

RUS 101-102

ELEMENTARY RUSSIAN

3-6 credits

Core I

A modified audio-lingual approach; regular exercises in Language Laboratory stress fundamental structural features of the contemporary spoken language.

RUS 201-202

INTERMEDIATE RUSSIAN

3-6 credits

Core I, II

Second part of two-year program based on modified audio-lingual principles. Continued emphasis on Language Laboratory work. Introduction to literature and civilization. Translation of business correspondence and readings in general science.

Areas of Study

RUS 241-242**RUSSIAN LITERATURE OF THE 19th CENTURY**

3-6 credits

Romanticism and realism in Russian literature. Readings from Pushkin, Griboedov, Lermontov, Gogol, Turgenev, Ostrovsky, Dostoevsky, L. Tolstoy, Saltykov-Shchedrin, Leskov, Chekhov, Kuprin, Bunin, and Andreev.

RUS 245-246**SOVIET LITERATURE**

3-6 credits

Socialist realism as a doctrine of art and literature in the Soviet Union. Readings from Gorky, Mayakovsky, Babel, Olesha, Leonov, Zamyatin, Zoshchenko, Sholokhov, Ilf and Petrov, Simonov, Pasternak, Yevtushenko, Solzhenitsyn, and others.

RUS 301 (F)**ADVANCED GRAMMAR AND CONVERSATION**

3 credits

Core I, II

Advanced grammar exercises and conversation. Reading of a Russian newspaper.

RUS 302 (S)**SCIENTIFIC RUSSIAN**

3 credits

Core I, II

Theory and practice in translating scientific texts. Selected readings in chemistry, physics, mathematics, geology, anatomy, and astronomy.

RUS 303-304**ADVANCED READINGS AND COMPOSITION**

3-6 credits

Selected readings of 19th and 20th century Russian prose and verse. Translation of selected scientific articles. Intensive exercises in translating standard English prose into Russian.

RUS 401 (F)**HISTORY OF THE RUSSIAN LANGUAGE**

3 credits

Historical background for an understanding of the phonology, morphology, syntax, and vocabulary of modern Russian.

RUS 402 (S)**OLD RUS' LITERATURE**

3 credits

Selected readings from the epic, annalistic, and hagiographic literature from the 11th to the 17th centuries with special emphasis on *Igor Tale* and the *Primary, Kievan*, and *Galician-Volynian* chronicles. The beginnings of fiction.

RELATED STUDIES:**SLA 320 (S)****THE CULTURES OF THE PEOPLES OF THE SOVIET UNION**

3 credits

Lectures and readings on seventeen major Soviet nationalities: the fifteen which have their own Union Republics, plus the Tatars and the Jews. An in-depth view of the territory, demography, culture, media, education, language, and national attitudes of the various peoples of this multi-national state.

SLA 403 (F)**UKRAINIAN**

3 credits

The study of the phonology, morphology, syntax, and vocabulary of a second Eastern Slavic language, Ukrainian, by noting the differences that exist between it and Russian.

SLA 404 (S)**POLISH**

3 credits

The study of the phonology, morphology, syntax, and vocabulary of a Western Slavic language, Polish, by noting the differences that exist between Polish, Russian, and Ukrainian.

SPANISH**REQUIREMENTS**

Required for Major in Spanish: 14 courses

- SPN 311-312, 313
- Seven Spanish electives beyond 100-level (two from 400 list)
- Four courses in second language
- Recommended: History 231, 232

COURSE DESCRIPTIONS**SPN 101-102****ELEMENTARY SPANISH**

3-6 credits

Core I

Designed to provide a fundamental capacity in conversation; audio-oral method employed. Grammar is presented strictly on a functional basis to facilitate speech and comprehension. One required hour per week in the Language Laboratory.

SPN 201-202 (F, S)**INTERMEDIATE SPANISH**

3 credits

Core I, II

Review exercises in comprehending, speaking, reading, and writing Spanish. Cultural information on Spanish-speaking countries. Weekly assignments in the Language Laboratory.

SPN 301-302**ADVANCED CONVERSATION AND COMPOSITION**

3-6 credits

Core I, II

Includes intensive oral and written exercises with a view towards improving the student's speaking and writing skills. Students make frequent use of audio aids.

SPN 307 (F, S)**COMMERCIAL SPANISH**

3 credits

Intended to acquaint the student with commercial Spanish

Areas of Study

terminology combined with lectures, readings, and translations of business letters. Introduction of new vocabulary used in the business world with emphasis on Spanish American idiomatic expressions.

SPN 311-312**SURVEY OF SPANISH LITERATURE**3-6 credits **Core I, II**

An introduction to the study of peninsular Spanish literature from the Middle Ages to the present. Readings and discussions in Spanish.

SPN 313 (F, S)**SURVEY OF SPANISH AMERICAN LITERATURE**3 credits **Core I**

Reading and discussion of works from the colonial period to the 20th century, with special emphasis upon contemporary Latin American literature.

SPN 321 (F)**SURVEY OF SPANISH CIVILIZATION**

3 credits

A cultural and historic study of Spain's past, examining the effects of Rome and Islam, the period of Spanish domination and later decline, and the status of present-day Spain.

SPN 322 (S)**SURVEY OF SPANISH AMERICAN CIVILIZATION**

3 credits

A cultural and historic presentation of the diversity of Latin America from the Aztecs and Incas to the Conquest, the viceroyalties, and the establishment of independent nations; course concludes with a thorough study of today's Latin America.

SPN 350-351**INTRODUCTION TO BILINGUAL-BICULTURAL STUDIES**

3-6 credits

Linguistic and cultural problems in teaching English to speakers of

other languages. Emphasis on materials, techniques and attitudes of teachers and students. Special emphasis on the vocabulary and idiom of the Caribbean. Cultural survey of present day problems in Puerto Rico and other Caribbean countries.

SPN 401 (F)**HISTORY OF THE SPANISH LANGUAGE**

3 credits

Study of the formation of the language, its evolution and phonetic changes from Latin to the present modern pronunciations. Reading and discussion of the early Spanish texts and the development of the language in the early period.

SPN 405 (F, S)**LITERATURE OF THE MIDDLE AGES**

3 credits

Core I

Emphasis is placed on such works as *Cantar de Mio Cid*, *Poema de Fernan Gonzalez*, and *Amadis de Gaula*; authors include Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Marques de Santillana, and los Manrique.

SPN 411 (F, S)**RENAISSANCE LITERATURE**

3 credits

Core I

The works of Boscan, Garcilaso, Encina, Nebrija, Torres Naharro, and Lope de Rueda, and such works as *Tirant lo Blanc*, *Celestina*, and *Lazarillo de Tormes* form the basis of this period of literary activity.

SPN 415 (F, S)**DRAMA OF THE GOLDEN AGE**

3 credits

Core I

Readings, reports, and discussions of the principal dramatists of the Golden Age: Lope de Vega, Tirso de Molina, Calderon, Alarcon, and others.

SPN 419 (F, S)**CERVANTES**

3 credits

Core I

Readings and discussions of *Don Quixote*. Other important works by Cervantes also discussed.

SPN 442 (F, S)**ROMANTICISM**

3 credits

Core I

A study of the early 19th century which analyzes works of such authors and poets as Larra, Duque de Rivas, Zorilla, Espronceda, Garcia Gutierrez, Hartzenbusch, and Becquer.

SPN 443 (F, S)**POETRY OF THE 19th AND 20th CENTURIES**

3 credits

Core I

Works by Gabriel y Galan, de Castro, Dario, los Machado, Jimenez, Lorca, Guillen, Otero, and Salinas are considered.

SPN 448 (F, S)**THE SPANISH AMERICAN NOVEL**

3 credits

Core I

Introduces students to the development of the contemporary Latin American novel through an analysis of the sociological and literary aspects of the work of various leading authors. Special attention to works by and about women. Class discussions and examinations in Spanish.

SPN 457 (F, S)**THE SPANISH NOVEL OF THE 19th AND 20th CENTURIES**

3 credits

Core I

Reading and discussion of Spanish authors, their ideology and philosophies: Fernan Caballero, Galdos, Valera, Pio Baroja, Ala, Cela, Delibes, and Goytisolo.

SPN 480 (F, S)**SEMINAR**

3 credits

Core I

Topics of investigation vary from semester to semester.

Areas of Study

GEOLOGY AND PHYSICS

FACULTY

H. A. Bart, Ph.D., *Chair Professor*: Hoersch
Associate Professors: Bart, Guttman, Longo, Simmons
Assistant Professor: Strieb

FOUNDATION COURSES

GEO 151, 152, 153, 154

GEOLOGY

REQUIREMENTS

Required for Major in Geology: 15 courses

- GEO 151, 152, 202, 203, 204, 205, 301, 302, 303, 401, 402, plus one elective geology course at the 200 level or above.
- CHM 111-112. MTH 113.
- Suggested courses: Students anticipating graduate work in geology or closely related areas are advised to elect courses in basic sciences, mathematics, computer science, Russian, German, or French.

COURSE DESCRIPTIONS

GEO 151 (F, S) PLANET EARTH

3 credits **Foundation**

An introduction to the physical processes that interact to change the interior and the surface of the earth, including weathering, earthquakes, volcanos, glaciation, marine erosion, "Continental Drift," and mountain building. Two hours lecture, two hours laboratory and field trip.

GEO 152 (F, S) EARTH HISTORY

3 credits **Foundation**

An introduction to the physical and biological processes that have modified the earth through geologic time. Emphasis will be on earth changes through geologic time, and the evolution of life from simple cells to the higher vertebrates. Laboratory experience will include study of fossils, and basic geologic principles. Two hours lecture, two hours laboratory, and field trip.

GEO 153 (F, S) OCEANOGRAPHY

3 credits **Foundation**

A study of the physical processes that affect the oceans of the earth. Emphasis will be on tides, currents, waves, chemistry of the sea, and geology of ocean basins. Three hours lecture.

GEO 154 (F, S) ASTRONOMY

3 credits **Foundation**

A contemporary view of the universe from the big bang to its possible ends, our sun and its planets, galaxies, the life and death of stars, white dwarfs, neutron stars, quasars, black holes, life on earth, and the possibility of extraterrestrial intelligence.

GEO 202 (F) MINERALOGY AND CRYSTALLOGRAPHY

4 credits

The identification of minerals using physical characteristics. An introduction to crystal chemistry and symmetry. Three hours lecture, two hours laboratory. Prerequisites: GEO 151, 152.

GEO 203 (S) OPTICAL MINERALOGY

4 credits

An introduction to the theory of light transmission in crystals. Use is made of the polarizing microscope to study light phenomena in minerals. Lab is

concerned with identification of minerals using thin section and oil immersion techniques. Two hours lecture, four hours laboratory. Prerequisite: GEO 202.

GEO 204 (S) PETROLOGY

4 credits

Descriptive classifications of textures and processes of igneous, metamorphic, and sedimentary rocks with emphasis on hand specimen identification. Three hours lecture, two hours laboratory. Prerequisite: GEO 202.

GEO 205 (F) PALEONTOLOGY

4 credits

A review of the invertebrate and vertebrate fossil record. Correlation of biological development with the stratigraphic record. Includes recent advances in paleoecology. Two hours lecture, three hours laboratory.

GEO 301 (S) STRATIGRAPHY

4 credits

An introduction to physical stratigraphy, methods of correlation of rock and time rock units; the interpretation of paleogeography. Two hours lecture, three hours laboratory.

GEO 302 (F) SEDIMENTOLOGY

4 credits

Analysis and interpretation of sedimentary processes; classification and analysis of the common sedimentary rocks. Three hours lecture, three hours laboratory.

GEO 303 (F) STRUCTURAL GEOLOGY

4 credits

Description and mechanics of structural features such as: folds, joints, faults, lineations and foliations features. Laboratory is concerned with problem solving using geometric and

Areas of Study

stereographic techniques, cross-sections, and the examination of tectonic forces that cause deformation. Three hours lecture, two hours laboratory. Prerequisites: MTH 113, GEO 151, 152, 202, 204.

GEO 304 (S)

GLOBAL TECTONICS

3 credits

A review of the literature on the theory of plate movement and study of the dynamic earth system with implications as to the origins of magma, earthquakes, and sea-floor spreading. Three hours lecture, one hour laboratory. Prerequisites: GEO 151, 152.

GEO 305 (S)

GEOCHEMISTRY

3 credits

Discussions of the geochemical behavior of the elements comprising the earth. A look at the chemical processes involved with weathering, oxidation, and the crystal chemistry of solids with application to the formation of stable compounds (phase theory). Three hours lecture. Prerequisites: CHM 111-112; GEO 151, 152, 202.

GEO 401 (F)

IGNEOUS PETROLOGY

4 credits

Classification, examination, and analysis of igneous rocks. Petrographic analysis of rock suites in thin section will be used to determine the cooling histories of the rocks. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

GEO 402 (S)

METAMORPHIC PETROLOGY

4 credits

A review of the metamorphic facies concept with a look at the physical, thermodynamic, and geochemical processes concerned with mineral recrystallization. Detailed thin-section examination

of the various metamorphic zones. Two hours lecture, four hours laboratory, field trips. Prerequisites: GEO 202, 203, 204; CHM 111, 112.

GEO 403 (S)

ECONOMIC GEOLOGY

3 credits

The study of ore deposits associated with igneous, metamorphic, and sedimentary rocks. Emphasis on classical ore deposits. A survey of the various origins for metallic and non-metallic deposits. Three hours lecture. Prerequisites: GEO 202, 204; CHM 111, 112.

GEO 470 (F)

TOPICS IN ADVANCED GEOLOGY

3 credits

Selected topics dealing with contemporary developments in geology.

GEO 480 (F, S)

RESEARCH

1-4 credits

Supervised research in geology. Can be elected in fall, spring, or summer. Permission of Chair required.

PHYSICS

FOUNDATION COURSE

PHY 150

REQUIREMENTS

Required for Major in Physics: 14 courses

- PHY 105-106, 207, 208, 305, 307, 308, 311, 411, 413.
- PHY 301 and 302 or 351 and 352.
- MTH 120, 221.

COURSE DESCRIPTIONS

PHY 102

FROM THE ATOM DOWN

3 credits

For science and non-science majors. General relativity and cosmology. The conservation laws and their relation to elementary particle physics. The role of chance in physics from thermodynamics to the quantum revolution. Matter theory. Physics and life. Concepts rather than mathematics stressed.

PHY 105-106

GENERAL PHYSICS

4-8 credits

Vectors, elementary mechanics of point particles and rigid bodies, gravitation, simple harmonic motion and waves. Elementary optics, electromagnetism and DC circuits. Prerequisite: MTH 120. Three hours lecture, two hours laboratory; two terms.

PHY 120

SCIENCE, TECHNOLOGY, AND SOCIETY

3 credits

A study of some interactions between science, technology, and society. Topics include: the scientific community; history of technology; weapons; science, technology, and the arts; technology and change.

PHY 121

WOMEN, MEN; SCIENCE, TECHNOLOGY

3 credits

An exploration of gender components in science and technology. Extra-scientific influences on scientific theories; why there are not more female engineers and scientists; how science views male/female differences; use of science to reinforce social attitudes; the political content of technology and how technology impacts differently on men and women. No prerequisites.

Areas of Study

PHY 150 (F, S)

SOME REVOLUTIONS IN PHYSICS
3 credits **Foundation**

A non-mathematical introduction to physics with emphasis on studying the processes of scientific change. Ancient astronomy and mechanics. The Copernican/Newtonian Revolution, Special Relativity. Current ideas in elementary particle physics.

PHY 207 (F)

MODERN PHYSICS I
3 credits

The breakdown of classical physics around the turn of the century and its replacement by relativity theory and quantum mechanics. Attention to the experiments leading to this break down. Course culminates with the Schrödinger equation and its application to simple potentials. Prerequisites: PHY 105-106; MTH 221 concurrently; or permission of instructor.

PHY 208 (S)

MODERN PHYSICS II
4 credits

Applies basic quantum theory developed in PHY 207 (the Schrödinger equation) to a series of problems in which it has had marked success. They include: atomic spectra; the physics of molecules including the chemical bond; condensed matter; the nucleus and fundamental particles. Three hours lecture, two hours laboratory. Prerequisite: PHY 207.

PHY 301 (F)

ELECTRONICS
3 credits

Elementary DC and AC circuit theory; diodes, bipolar and field effect transistors; small signal analysis, feedback; operational amplifiers. Prerequisites: PHY 105-106 or permission of instructor. Laboratory required.

PHY 302 (S)

INTRODUCTION TO DIGITAL
COMPUTER ELECTRONICS
3 credits

Diodes and transistors used as switching devices, Boolean algebra, 7400 integrated circuit series, counters, adders, general registers and basic computer hardware. Prerequisite: PHY 301 or permission of instructor. Laboratory required.

PHY 305 (S)

THERMAL PHYSICS
3 credits

The laws of thermodynamics; techniques of statistical mechanics. Applications to classical and quantum ideal gases and other systems. Kinetic theory and transport phenomena. Prerequisites: PHY 105, 106, 207 (or permission of instructor).

PHY 307 (F)

MATHEMATICAL PHYSICS I
4 credits

Infinite series, Taylor expansions, partial differentiation, multiple integration, differential and integral vector calculus, Fourier series. Partial differential equations, special functions, boundary value problems. Prerequisite: MTH 221.

PHY 308 (S)

MATHEMATICAL PHYSICS II
3-4 credits

Calculus of variations, linear algebra and eigenvalue problems, complex variables, the Fourier and Laplace transforms with applications to ordinary and partial differential equations. Prerequisite: PHY 307 or equivalent.

PHY 311 (F)

ELECTRICITY AND MAGNETISM I
3 credits

Electrostatics, magnetostatics, dielectrics and magnetic materials, Maxwell's equations, electromagnetic waves. Prerequisite: PHY 307 or equivalent.

PHY 312 (S)

ELECTRICITY AND MAGNETISM II
3 credits

Radiating systems; accelerated point charge, electric and magnetic dipoles, electric quadrupole radiation, antennas. Lorentz invariance of the Maxwell equations and some consequences thereof. Prerequisite: PHY 311.

PHY 313 (S)

STATES, WAVES, AND PHOTONS
4 credits

A modern introduction to optics encompassing matrix representations of optical systems and polarization states of light; the Jones calculus, the Mueller calculus and the Stokes representation; states of light as eigenstates of operators, expectation values, the bra-ket product and probability amplitudes; an approach to scalar diffraction through Green's theorem and Fourier Transforms; the electromagnetic field and its quantization. Three hours lecture, two hours laboratory. Prerequisite: PHY 311.

PHY 321

INTRODUCTION TO
ASTROPHYSICS
3 credits

Methods for determining the basic properties of stars, such as temperatures, masses, and radii; stellar energy and structure.

PHY 351

ADVANCED LABORATORY I
3 credits

Laboratory work with close faculty guidance, but emphasizing independent work and a professional approach. A selection of experiments from mechanics, acoustics, electricity and magnetism, atomic and nuclear physics, experimental methods and instrumentation, error and data analysis. Prerequisite: PHY 207.

Areas of Study

PHY 352

ADVANCED LABORATORY II

3 credits

Similar in purpose to PHY 351 but with material selected which will not duplicate the student's previous experience. Prerequisite: PHY 207.

PHY 353 (S)

INTRODUCTION TO MICROPROCESSORS

3 credits

Hardware and software of a well known microprocessor chip will be dealt with. CPU'S, I/O, memories and A/D will be some of the topics treated.

Microprocessors available to conduct required experiments.

Prerequisite: PHY 302 or permission of instructor.

PHY 411-412

MECHANICS

3-6 credits

Topics include the single particle and systems of particles in one, two, and three dimensions; rigid body motion; moving coordinate systems; the mechanics of continuous media; Lagrangian and Hamiltonian formulations; tensor methods; special relativity.

Prerequisites: General Physics, PHY 307 or MTH 222 or permission of instructor.

PHY 413-414

QUANTUM PHYSICS

3-6 credits

The Schrödinger equation and its application to one dimensional systems and the hydrogen atom. Heisenberg's uncertainty relations, perturbation theory for degenerate and nondegenerate states. Quantization of the electromagnetic field and applications of quantum mechanics to atomic, nuclear and solid state physics. Prerequisite: PHY 105-106, PHY 307 or equivalent.

PHY 470

SPECIAL TOPICS

3 credits

As interests dictate, special programs may be introduced into the curriculum, discussing specialized areas for group or independent study.

PHY 480-481

RESEARCH

1-2 credits

Individual studies and research, presentation of papers, familiarization with the literature.

HISTORY

FACULTY

Theopolis Fair, Ph.D., *Chair*

Professors: O'Grady, Rossi, Stow

Associate Professors: Cziraky, Fair,

Hennessy, Labunka, McCarthy

Assistant Professors: Desnoyers,

Sheehy

FOUNDATION COURSE

HIS 150

CORE COURSES

Approved sequences for Core I:

- American: (HIS 101, 201, 301).
- European Civilization: (HIS 102, 202, 302).
- Third World: (103, 203, 303).

When you select one of these three sequences, you must take all three courses within that same sequence.

Approved courses for Core II:

200- and 300-level Core I courses and 307, 308, 325, 328, 329, 331, 333, 335, 336, 337, 338, 339, 340, 342, 344, 346, 347, 348, 370, 415, 447, 452, 458, and 470.

For Core I, take 300-level courses last. For elective or Core II, take courses in any order.

REQUIREMENTS

Required for History Majors: 15 courses

History majors are required to take, in addition to the foundation course (HIS 150), a three (3) course sequence in one area of concentration, four (4) additional courses in the same area of concentration, five (5) more courses from the other areas (3 from one and 2 from another), and two seminars.

Dual Majors: The seminar requirement is waived for those whose second major is history if a seminar is required of the other major. Depending on the other courses taken by the student whose second major is history, the number of courses required ranges from 11 to 13.

Minors: Minors in history are required to take six (6) courses in addition to the Foundation Course (150).

Recommended Courses: The Department does not require, but strongly recommends, that majors take courses in a foreign language. Many graduate schools require a language for a degree.

Advanced Placement credit in history is granted to students who score 3 or above and, in the case of the history sequences, counts toward 100- and 200-level courses.

COURSE DESCRIPTIONS

HIS 150

GLOBAL HISTORY

3 credits

Foundation

A study of the evolution and interactions of the cultures of Europe, America, Africa, and Asia from 1500 to the present, designed to give students a greater understanding of the relationships among modern

Areas of Study

nations so necessary in today's shrinking globe.

American Sequence

HIS 101

THE UNITED STATES TO 1840

3 credits

Core I

Traces the unfolding of American history from colonial times through Jacksonian America. The coming of the Revolution, the Revolution and its results, the Federalist experiment, and the Jeffersonian concept of democracy.

HIS 201

THE UNITED STATES FROM 1840 TO 1920

3 credits

Core I, II

Covers from the Jacksonian era to the end of World War I. The coming of the Civil War, the War and its results, Reconstruction, the Progressive Movement, and American involvement in World War I.

HIS 301

THE UNITED STATES IN THE 20TH CENTURY

3 credits

Core I, II

Covers from the end of World War I to the present. The Roaring Twenties, America between the wars, American involvement in World War II, America and Russia in the Cold War, the Vietnam era, and the U.S. and the world in the current era.

European Sequence

HIS 102

ANCIENT AND MEDIEVAL EUROPE TO 1400

3 credits

Core I

Traces the unfolding of western civilization from pre-history to the Renaissance. The legacies of Greece and Rome: the heritage of both early Christian Europe and the Byzantine and Islamic civilizations; the contribution of later medieval Europe to the

governmental, economic, and intellectual growth of Europe.

HIS 202

EUROPE FROM THE 15TH CENTURY TO NAPOLEON

3 credits

Core I, II

Surveys profound changes in political, social, economic, cultural, and religious life of European society between the 15th and the end of the 18th centuries. Decline of feudal institutions, emergence of modern European states, and discoveries in the western hemisphere.

HIS 302

MODERN EUROPE SINCE 1815

3 credits

Core I, II

Industrialism and its impact on European society; decline of political liberalism and subsequent rise of nationalism; development of modern totalitarianism and the impact of two world wars on western society.

Third World Sequence

HIS 103

ASIA, AFRICA, AND THE AMERICAS TO 1500

3 credits

Core I

Beginning with pre-history, course examines and compares such diverse civilizations as ancient Egyptian, Hindu, Buddhist, Confucian, Inca, Kushitic, Mayan, Hebraic, Islamic, and Malian.

HIS 203

ASIA, AFRICA, AND THE AMERICAS: 1500-1920

3 credits

Core I, II

Focuses upon imperialism and its various manifestations in the non-western world and the emerging desire for independence among colonial nations after World War I.

HIS 303

ASIA, AFRICA, AND THE AMERICAS: 1920-PRESENT

3 credits

Core I, II

The devolution of European power to the independence of nation states and problems associated with that independence. North-South differences, Arab-Israeli conflict, the Cold War and the Third World, communism vs. capitalism, rise of Japan, apartheid, and terrorism.

Area I: American History

HIS 324 (F, S)

HISTORY OF PHILADELPHIA

3 credits

The historical development of Philadelphia from colonial times to the present, emphasizing the way people lived, the impact of transportation upon city growth, and the changing nature of industrialization. Lectures combined with field trips. Cost of field trips requires an additional fee of \$40.00.

HIS 329 (S)

THE AMERICAN WOMAN

3 credits

Core II

An in-depth analysis of the experience of women in American culture. Special attention to the women's rights movement, women and the law, and the unique challenges facing black women.

HIS 331 (F, S)

AMERICA'S MILITARY PAST

3 credits

Core II

The impact of the American military establishment upon American society, and the formation of defense strategy and foreign policy.

HIS 333 (F, S)

THE AMERICAN IMMIGRANT

3 credits

Core II

The history of immigration to America and the ethnic impact upon American institutions.

Areas of Study

HIS 337 (F, S)

THE BLACK EXPERIENCE IN AMERICA

3 credits

Core II

The main themes in black history from the African experience to the present, with special attention given to slavery, protest movements, civil rights, and black achievement.

HIS 341

RUSSIAN-AMERICAN DIPLOMATIC HISTORY

3 credits

This course will survey the diplomatic relations between the United States and the Soviet Union from the American Revolution to the Reagan-Gorbachev summit of 1987.

HIS 342 (F, S)

HISTORY OF THE WESTERN MOVEMENT IN AMERICA

3 credits

Core II

A study of the American frontier emphasizing pioneer life, federal Indian policy, and the settlement of the Great Plains and Far West.

HIS 347 (F, S)

PRESIDENTIAL POLITICS; ROOSEVELT TO REAGAN

3 credits

Core II

Historical analysis of presidential campaigns from 1900 to 1980, stressing the evolution of political techniques, issues, political parties, and presidential personalities.

HIS 402 (F, S)

THE AMERICAN REVOLUTION

3 credits

An intensive analysis of concepts and movements generated in the American colonies which resulted in revolution and separation of the British settlements.

HIS 413 (F, S)

JEFFERSONIAN-JACKSONIAN DEMOCRACY

3 credits

A detailed analysis of the development of the American

political system in an increasingly democratic society.

HIS 415 (F, S)

THE AMERICAN CIVIL WAR

3 credits

Core II

A detailed study of the disruption of the Union, stressing the causes, personalities, and human drama of the military events leading to Appomattox.

HIS 425 (F, S)

AMERICA AS A WORLD POWER, 1939-PRESENT

3 credits

The growth of government involvement at home and abroad since 1939; reading and analysis of original documents.

HIS 429 (F, S)

THE EMERGENCE OF MODERN AMERICA, 1877-1913

3 credits

The nationalization of American life, including the building of the railroad network, the rise of industry, the labor movement, immigration, and urbanization.

HIS 447 (F, S)

THE UNITED STATES IN THE PACIFIC BASIN

3 credits

Core II

The interrelationship of the United States and the East Asian world in the modern period.

Area II: European Concentration

HIS 325 (F, S)

IMPERIALISM IN THE MODERN WORLD

3 credits

Core II

A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.

HIS 328 (F)

WOMEN AND HISTORY

3 credits

Core II

The history of women and their changing role and position in Western Europe from the Classical Period to the 20th century. Particular attention to the development of primary institutions such as the family and motherhood.

HIS 335 (235) (F, S)

GREEK CIVILIZATION

3 credits

Core II

A survey that stresses the development of Greek civilization until the death of Alexander the Great.

HIS 336 (236) (F, S)

THE ROMAN EMPIRE

3 credits

Core II

A survey that places a special emphasis upon the Roman Republic and the Empire until 476 A.D.

HIS 338 (238) (F, S)

THE EARLY MIDDLE AGES

3 credits

Core II

A study of the period from 284 A.D. until c. 1000 A.D., emphasizing the synthesis of Roman, Christian, and barbarian cultures.

HIS 339 (239) (F, S)

THE LATER MIDDLE AGES

3 credits

Core II

A study of the period from c. 1000 A.D. until the Renaissance, focusing on the social, economic, intellectual, and political revival of Europe.

HIS 343 (241) (F, S)

MODERN EUROPE TO 1870: THE AGE OF REVOLUTIONS

3 credits

A survey of Europe centered on the political and social development in Germany and France, and the impact of Russia's rise to world power.

Areas of Study

HIS 345 (242) (F, S)

MODERN EUROPE SINCE 1870:
THE AGE OF VIOLENCE

3 credits

A detailed survey of Europe in the last hundred years.

HIS 348 (248) (F, S)

SLAVIC AND EASTERN EUROPEAN
HISTORY

3 credits

Core II

An examination of the rise of Slavic civilization and the present problems of Eastern Europe.

HIS 440 (F, S)

MODERN IRELAND

3 credits

An examination of the major political, social, and economic developments in Ireland since the Famine of 1845.

HIS 452 (F, S)

THE SOVIET UNION

3 credits

Core II

A survey of Soviet Russia's evolution from its beginning in 1917 to the present.

HIS 458 (F, S)

RECENT BRITAIN: EMPIRE TO
WELFARE STATE

3 credits

Core II

A detailed analysis of the decay of the Empire, the rise of the welfare state, and the impact of both on English life.

Area III: Third World/Non-Western

HIS 307 (231) (F, S)

LATIN AMERICA: THE COLONIAL
PERIOD

3 credits

Core II

A survey that treats the Inca, Aztec, and Maya cultures. African influences as well as Spanish and Portuguese contributions to the development of Latin America.

HIS 308 (232) (F, S)

LATIN AMERICA IN REVOLUTION

3 credits

Core II

Revolutionary movements in Latin America from Independence to

the present, with special emphasis on Cuba, Chile, Mexico, Brazil, and Central America.

HIS 325 (F, S)

IMPERIALISM IN THE MODERN
WORLD

3 credits

Core II

A study of the expansion of western nations into the world of Asia and Africa in the 19th century, and the contraction of western influence in these areas in the 20th century.

HIS 344 (244) (F, S)

TOPICS IN AFRICAN HISTORY

3 credits

Core II

An account of the empires, tribes, and development of Africa from earliest times to the present.

HIS 346 (246) (F, S)

EAST ASIA IN THE MODERN
WORLD

3 credits

Core II

Changes in Modern Asia as a result of the rise of industrialism, urbanism, nationalism, and western influence.

HIS 370/470

SPECIAL TOPICS IN THIRD
WORLD AREAS

3 credits

Core II

Central America, the Middle East, China, India, etc.

**Other Courses:
Depending on the
specific topic, these
courses can be taken
for either Area I, II, or
III.**

HIS 340 (F, S)

TOPICS IN MODERN HISTORY

3 credits

Core II

An examination of selected topics illustrating the political, social, and cultural history of the modern world.

HIS 460 (F, S)

DIRECTED READINGS

3 credits

Readings of certain basic books relating to a specific historical topic, theme, or era; assignments discussed in seminar-tutorial fashion.

HIS 480 (F, S)

SEMINAR

3 credits

Methodology and historiography; bibliographical essay required.

HIS 481 (F, S)

SEMINAR

3 credits

Writing a research paper.

HIS 482-485

SEMINARS

3 - 6 credits

INTERNATIONAL STUDIES MINOR

Directed by: Joshua Buch, Ph.D.,

Finance Department

Designated as a minor available to all students regardless of major.

REQUIREMENTS

Required: 6 Courses

Many of the courses listed below may also fulfill Core I or Core II requirements.

Any 3 courses from the following:

- Core IA:
- PHL 305, REL 240, 341, 344
- Core IB:
- All foreign language and foreign literature courses approved for Core I (See Foreign Languages and Literatures.); ENG 165; HIS 103, 202, 203, 302, 303
- Core II
- All foreign language and foreign literature courses approved for Core II.
- ECN 330, 331
- ENG 165
- HIS 308, 325, 344, 346, 348,

Areas of Study

- POL 230, 231, 233, 330, 331, 332, 333, 334
 - SOC 207, 208, 213, 308
 - Additional courses: (Can also satisfy the first group of the three course requirement.)
 - ECN 412
 - ENG 312
 - HIS 307, 343, 345, 440, 447, 452, 458
 - REL 340
- Any 3 courses from the following:
- ECN 330, 331
 - POL 231
 - MGT 381
 - FIN 403

MATHEMATICAL SCIENCES

FACULTY

Samuel J. Wiley, Ph.D., *Chair Professors*: Albright, McCarty
Associate Professors: Hofmann, Longo, O'Neill, Van Rossum, Wiley
Assistant Professors: Andrilli, DiDio, Dondero, Elliott, Kirsch, McManus, Michalek, Mooney, Pomerance, Turk
Instructor: Malseed
Lecturer: Scheiter

FOUNDATION COURSES

CSC 151, 152, 155

Which foundation course should you take?

- Mathematics and computer science majors are required to take CSC 155.
- Students who plan to minor in computer science or take a significant number of computer science courses should also take CSC 155.
- Other Science majors will take CSC 152.
- Business majors are strongly advised to take CSC 151.
- Students in the remaining majors should choose between CSC 151 and CSC 152.

REQUIREMENTS

- Required for Major in Mathematics: 15 courses
- Required for Major in Computer Science: 18 courses
- Required for Major in Mathematics and Education: 12+ courses

There are three major programs: mathematics, computer science, and mathematics-education.

The choice of program should depend on career objectives and personal interests. If there are any questions, the student should consult with the Department Chair or departmental advisor.

Mathematics: (15 courses)

- MTH 120, 221, 222, 240, 321, 341; CSC 155; PHY 105-106; six mathematics courses from Section B below.

Computer Science: (18 courses)

- MTH 140, 120, 221, 240; CSC 155, 156, 254, 257, 357, 358, 459; four computer science courses chosen from Section D below; PHY 105-106; one approved course in probability and statistics.

Students wishing to take advanced level (300-400) courses in Computer Science must be admitted to advanced standing in the program or have permission of the Chair. A certificate of advanced standing in Computer Science will be awarded when a student has completed MTH 120, MTH 140, CSC 155, CSC 156, CSC 254 and CSC 257 with a C (2.00) average or better. Students may preregister for advanced level courses before certification of advanced standing in Computer Science but they will not be permitted to take such courses until certified.

Mathematics-Education: (12+ courses)

- MTH 120, 140, 221, 222, 240, 321, 330, 341; CSC 155, PHY 105-106; one mathematics course from Section B below; courses specified by the Education Department.

Computer Science-Mathematics:

A dual major in Computer Science-Mathematics can be obtained by taking:

- CSC 155, 156, 254, 257, 357, 358, 459; four additional CSC courses from Section D below; MTH 120, 140, 221, 222, 240, 321, 341, 410; three additional MTH courses from Section B below; PHY 105-106. This dual major requires approval of the Dean and Department Chair.

COURSE DESCRIPTIONS

MATHEMATICS

SECTION A:

MTH 101 (F) INTERMEDIATE ALGEBRA 3 credits

Algebraic operations; linear and quadratic equations; exponents and radicals; elementary functions; graphs; systems of linear equations. Note: Not to be taken to fulfill major requirements. Students who have other college credits in mathematics must obtain permission of the Department Chair to enroll in this course.

MTH 113 (F, S) ALGEBRA AND TRIGONOMETRY 4 credits

Sets; the real number system; linear systems; matrices; logarithmic, exponential, and trigonometric functions; theory of equations. A knowledge of elementary trigonometry is assumed.

Areas of Study

MTH 115 (112) (F, S) **FINITE MATHEMATICS**

3 credits

Topics include linear systems, matrices and linear programming, permutations, combinations, elementary probability. Intended for business and liberal arts majors who have had at least two years of high school algebra.

MTH 116 (111) (F, S)

3 credits

INTRODUCTION TO CALCULUS
Fundamentals of differential and integral calculus with applications of calculus to the management and social sciences. Prerequisite: Math 115.

MTH 120 (F, S)

CALCULUS AND ANALYTIC GEOMETRY I

4 credits

Functions; limits and continuity; differentiation of algebraic functions; maxima and minima; curve tracing; velocity and acceleration; integration with applications to areas, volumes, surfaces, and work; the fundamental theorem of the calculus. Prerequisite: MTH 113 or equivalent in secondary school mathematics.

MTH 140 (F)

DISCRETE MATHEMATICS

3 credits

Logic; methods of proof; sets; permutations and combinations; graphs and digraphs; trees; functions and relations; representation of algorithms; Boolean algebras and logic circuits; Karnaugh maps.

MTH 221 (F, S)

CALCULUS AND ANALYTIC GEOMETRY II

4 credits

Differentiation and integration of transcendental functions; techniques of integration; improper integrals; conic sections; polar coordinates; introduction to infinite series. Prerequisite: MTH 120.

MTH 222 (F, S)

CALCULUS AND ANALYTIC GEOMETRY III

4 credits

Vectors; vector functions; partial differentiation; multiple integration; infinite series; Taylor expansions. Prerequisite: MTH 221.

MTH 240 (F, S)

LINEAR ALGEBRA

3 credits

Systems of linear equations; matrices; determinants; real vector spaces; subspaces; span and linear independence; basis and dimension; Gram-Schmidt process; linear transformations; change of basis; eigenvalues and eigenvectors; diagonalization; applications.

MTH 321 (F)

ADVANCED CALCULUS

3 credits

Calculus of vector valued functions; Green, Gauss, and Stokes theorems; infinite series. Prerequisites: MTH 222 and 240, or permission of instructor.

MTH 341 (F)

ABSTRACT ALGEBRA

3 credits

Sets and mappings; groups, rings, fields, and integral domains; substructures and quotient structures; homomorphisms and isomorphisms; abelian and cyclic groups; symmetric and alternating groups; polynomial rings. Prerequisite: MTH 240 or permission of instructor.

MTH 470, 471, 472, 473

SELECTED TOPICS IN MATHEMATICS

3 credits

An introductory course to specialized research, concentrating on one particular aspect of mathematics. The subject matter will vary from term to term.

SECTION B:

MTH 322 (S)

DIFFERENTIAL EQUATIONS

3 credits

Differential equations of the first order; linear differential equations of higher order; Laplace transforms; series solutions; applications to the physical sciences. Prerequisite: MTH 222.

MTH 330 (F 1990)

MODERN GEOMETRIES

3 credits

Topics from Euclidean geometry, projective geometry, the classical non-Euclidean geometries; recent developments in geometry. Prerequisite: MTH 240.

MTH 345 (F 1989)

COMBINATORICS

3 credits

Permutations and combinations; generating functions; recurrence relations and difference equations; inclusion/exclusion principle; derangements; other counting techniques, including cycle indexing and Polya's method of enumeration. Prerequisite: MTH 221.

MTH 410 (F 1989)

PROBABILITY AND STATISTICS I

3 credits

Sample spaces and probability measures; combinatorics; conditional probability and independence; random variables; densities and distributions; functions of a random variable; expected value; variance; Chebyshev's inequality; correlation coefficient; laws of large numbers; central limit theorem; applications to random walk. Prerequisite: MTH 222.

MTH 411 (S 1990)

PROBABILITY AND STATISTICS II

3 credits

Measures of central tendency and variability treated briefly. Random sampling from normal and non-normal populations. Estimation of parameters.

Areas of Study

Maximum likelihood estimates. Normal, chisquare, Student's t, and F distributions. Correlation and regression. Prerequisite: MTH 410.

MTH 421 (S 1991)
NUMERICAL ANALYSIS
 4 credits
 Basic concepts; interpolation and approximations; summation and finite differences; numerical differentiation and integration; roots of equations. Prerequisites: MTH 222, CSC 155.

MTH 424 (S 1990)
COMPLEX VARIABLES
 3 credits
 Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem; power series; infinite series; calculus of residues; contour integration; conformal mapping. Prerequisite: MTH 222 or permission of instructor.

MTH 425 (F 1990)
MATHEMATICAL MODELING
 3 credits
 Uses of mathematical methods to model real-world situations, including energy management, assembly-line control, inventory problems, population growth, predator-prey models. Other topics include: least squares, optimization methods, interpolation, interactive dynamic systems, and simulation modeling. Prerequisite: MTH 221.

MTH 430 (S 1991)
TOPOLOGY
 3 credits
 Topological spaces; subspaces; product spaces; quotient spaces; connectedness; compactness; metric spaces; applications to analysis. Prerequisite: MTH 341 or permission of instructor.

COMPUTER SCIENCE

CSC 151 (F, S)
INTRODUCTION TO COMPUTING USING PACKAGES
 3 credits **Foundation**
 Survey of computers and systems, data representation, problem solving using a computer. Use of several software packages including a word processor, spreadsheet, and data base management system. Applications to business and social science problems.

CSC 152 (F, S)
INTRODUCTION TO COMPUTING INCLUDING BASIC
 3 credits **Foundation**
 Survey of computers and systems, data representation, problem solving using a computer. Introduction to BASIC programming including control structures, arrays, and files. Introduction to software packages including a word processor and a spreadsheet. Applications to several types of problems including, business, science, and social science.

CSC 155 (F, S)
FUNDAMENTALS OF COMPUTING
 3 credits **Foundation**
 Programming in Pascal, including data representation, control structures, Boolean and Character data types, arrays, procedures, functions. Development of algorithms for problem solutions with an emphasis on mathematical and scientific applications. Prerequisite: one semester of college mathematics (or taken concurrently).

SECTION C:

CSC 156 (F, S)
ALGORITHMS AND DATA STRUCTURES
 3 credits
 Continuation of Computer Science 155. Introduction to elementary data structures in Pascal: arrays,

packed arrays, records, sets, files, stacks, queues, linked lists, binary trees. Sorting and searching algorithms; recursion. Prerequisite: CSC 155.

CSC 254 (F, S)
FILE AND DATA MANAGEMENT SYSTEMS
 3 credits
 Logical and physical data organization. Secondary storage devices, blocks, buffers, and files. File types and file management: sequential, indexed, and direct. File processing: control breaks, master file update, sort. Record addressing techniques, hashing, multikey processing. Structured programming in COBOL. Prerequisite: CSC 156 or permission of instructor.

CSC 257 (F, S)
COMPUTER STRUCTURE AND ASSEMBLY LANGUAGE
 3 credits
 Introduction to computer structure and architecture with programming assignments done in assembly language. Computer structure and machine language; assembly language; addressing techniques; macros; file input/output; subroutines; recursion; interrupts; error handling. Prerequisite: CSC 156.

CSC 350 (154) (S)
INTRODUCTION TO DATABASE MANAGEMENT
 3 credits
 Database design from requirements phase through implementation. Data models: relational, hierarchical and network. Relational algebra and implementation of case studies using a relational DBMS. Functions of database administration: concurrency, backup and recovery, security, integrity, and redundancy control. Prerequisite: CSC 151 or equivalent.

CSC 357 (S)

SYSTEMS SOFTWARE

3 credits

Macros and their use. Structure and function of assemblers, linking loaders, and compilers. Program subroutine linkage; parameter passing and binding. Syntax graphs and parsers. Students will design and program several examples. Prerequisite: CSC 257.

CSC 358 (F)

INTRODUCTION TO DIGITAL SYSTEMS AND MICROPROCESSORS

3 credits

Review of direct current fundamentals, transistors, and diodes. Fundamentals of gates, flip-flops, registers, and counters. Construction projects to illustrate digital principles. Study of a very simple computer using TTL components. Analysis and building of a microprocessor-based computer. Prerequisite: CSC 257 or concurrently.

CSC 450, 451 (F, S)

COOPERATIVE EDUCATION

3-6 credits

Prerequisite: permission of Department Chair.

CSC 459 (F)

SOFTWARE ENGINEERING

3 credits

Basic concepts and major issues of software engineering; project planning; cost estimation; requirement definition; software design; implementation issues; programming language features; validation techniques; software maintenance. Requires a team project to design, develop, document, test and maintain a software system. Prerequisites: CSC 254 and 257.

CSC 470, 471, 472, 473

SELECTED TOPICS IN COMPUTER SCIENCE

3 credits

An introductory course to specialized research in computers and computing, concentrating on one particular aspect of computer science. The subject matter will vary from term to term.

SECTION D:

CSC 354 (S)

DATA STRUCTURES

3 credits

An in-depth treatment of a variety of data structures and their associated algorithms. Stacks, queues, arrays and their address mapping functions. Linear lists, list operations, sequential and linked storage allocation, and garbage collection. Trees, binary trees, tree operations, and use of trees in sorting and searching. Multi-linked structures. Dynamic storage allocation; files and file structures; hash codes and comparison of search methods. Prerequisites: CSC 254 and 257.

CSC 356 (F)

PROGRAMMING LANGUAGES

3 credits

Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, binding, and subprograms; list processing, string manipulation, data description, and simulation languages; run-time representation of programs and data structures. Prerequisites: CSC 254 and 257.

CSC 453 (S 1990)

COMPUTER GRAPHICS

3 credits

Introduction to computer graphics, beginning with elementary methods for picture generation. Graphical methods

for forming various geometric figures (e.g., lines, circles, polygons). Representations of two- and three-dimensional objects. Other topics include: transformations, windows and clipping, hidden line/surface removal. Prerequisites: MTH 240 and CSC 257.

CSC 454 (F)

ADVANCED DATA PROCESSING AND DATA BASE MANAGEMENT

3 credits

Data base system architecture—data structures, storage structures, and data languages. Alternate approaches to data base management systems—relational approach, hierarchical approach, network approach. Data base security and integrity. Query processing. Prerequisite: CSC 254.

CSC 455 (S 1991)

FORMAL LANGUAGES AND AUTOMATA THEORY

3 credits

Formal languages and their description by grammars and automata: regular, context-free, context sensitive, and unrestricted languages. Deterministic and non-deterministic machines. Finite state machines and their applications. Theory of translation; parsing; LL(K), LR(K) and precedence grammars. Prerequisites: MTH 140 and CSC 257.

CSC 456 (F 1990)

ARTIFICIAL INTELLIGENCE

3 credits

Introduction to LISP; AI in theory: the production system formalism, problem-solving techniques—including tree-searching algorithms, knowledge representation—including the predicate calculus; AI in practice: game playing, expert systems, natural language understanding, learning, robotics. Prerequisite: CSC 257.

Areas of Study

CSC 457 (S) **OPERATING SYSTEMS** 3 credits

Principles and concepts of process and resource management in operating systems. IO programming; interrupt mechanism; memory management; processor management; scheduler; traffic controller; device management and information management and file systems. Concepts will be illustrated in the context of modern computers. Prerequisite: CSC 357.

CSC 458 (S 1990) **COMPUTER COMMUNICATIONS AND INTERFACING** 3 credits

Serial transmission of data. Theory and applications of operational amplifiers. Digital to analog, and analog to digital conversion. Elements of alternating current theory. Bus functions, transmission lines, and modem theory. The course includes several required construction projects. Prerequisite: CSC 358.

MILITARY SCIENCE

FACULTY

Lt. Colonel James H. Dent, M.S., M.A.

Professor: Dent

Assistant Professors: Corley, Fischer, Howe, Osborn

REQUIREMENTS

ROTC

Enrollment in 100- and 200- level Military Science courses is closed to seniors and open only to juniors with permission of the Department Chairperson.

COURSE DESCRIPTIONS

MSC 101 (F)
MILITARY SCIENCE—YEAR 1, THE HISTORY OF MILITARY ART
1 credit
The art of war from ancient times to the present. A study of military operations and the evolution of military theory and institutions. One hour leadership laboratory.

MSC 102 (S)
MILITARY SCIENCE—YEAR 1, AMERICAN MILITARY HISTORY
2 credits
Examines the how and why of American involvement in wars from the Revolution to Vietnam. One hour leadership laboratory.

MSC 201 (F)
MILITARY SCIENCE—YEAR 2, MILITARY GEOGRAPHY
2 credits
A study of tactical military geography to include a study of map reading and geomorphology. Class discusses and practices the essence of orienteering. One hour leadership laboratory.

MSC 202 (S)
MILITARY SCIENCE—YEAR 2, MILITARY GEOGRAPHY (Continued)
1 credit
The estimate of national power and the role of geopolitics examined in the framework of American military operations and the national security structure of the U.S. One hour leadership laboratory.

MSC 301 (F)
ADVANCED MILITARY SCIENCE—YEAR 3, MILITARY LEADERSHIP
3 credits
Introductory course in leadership examining the principles of leadership. Includes a case study of the junior army leader, his roles and responsibilities. One hour leadership laboratory mandatory.

Prerequisite: Permission of Department Chairperson.

MSC 302 (S)
ADVANCED MILITARY SCIENCE—YEAR 3, MILITARY LEADERSHIP (Continued)
3 credits
Analyzes the role of the leader by examining small unit operations of an infantry platoon. After studying the theory of operations, students are placed in leadership positions and given situations to analyze. One hour leadership laboratory mandatory. Prerequisite: Permission of Department Chairperson.

MSC 401 (F)
ADVANCED MILITARY SCIENCE—YEAR 4, PRINCIPLES OF MILITARY MANAGEMENT
3 credits
Analyzes the principles of management by use of case studies. Stresses the art of communication for success in management. One hour leadership laboratory mandatory. Prerequisite: Permission of Department Chairperson.

MSC 402 (S)
ADVANCED MILITARY SCIENCE—YEAR 4, PRINCIPLES OF MILITARY MANAGEMENT (Continued)
3 credits
Management by the junior officer. Includes command and staff responsibilities and relationships, ethics, military law, logistics, maintenance, and administration. One hour leadership laboratory mandatory. Prerequisite: Permission of Department Chairperson.

MUSIC

(See Fine Arts.)

Areas of Study

NURSING

Gloria F. Donnelly, R.N., M.S.N.,
Ph.D., *Chair*
(See Evening Division
Bulletin for listing of courses.)

PHILOSOPHY

FACULTY

Michael Kerlin, Ph.D., *Chair*
Professors: Kerlin, Sullivan
Associate Professors: Dallery,
Fitzgerald, Lashchyk, Strosser
Assistant Professors: Fallon,
Phillips, Van Fleteren

FOUNDATION COURSES

PHL 151, 152

CORE COURSES

Approved for Core I:

- General Topics: PHL 201, 206, 212, 264, 267, 269.
- Special Interest: PHL 270, 303, 305, 308, 309, 310, 311, 313, 323, 325, 326, 327, 328, 329, 330, 337, 338, 350, 370, 470. You may take *one* or *two* courses in philosophy to fulfill your Core I requirement.

REQUIREMENTS

Required for Major in Philosophy:
13 courses

- Foundation course
- PHL 311 or 323
- PHL 264 or 325
- PHL 326, 327, 328, 329, 330, 480
- Four other courses beyond the Foundation level.

COURSE DESCRIPTIONS

PHL 151
CONCEPTS OF HUMANITY
3 credits **Foundation**
A study of the concepts of humanity which underlie and affect thought, values, and actions in personal life and society.

PHL 152
MORAL INQUIRY AND MORAL CHOICE
3 credits **Foundation**
A study of the major moral theories related to how human beings do and ought to make moral decisions. Applications of these moral frameworks to contemporary moral issues will be an integral part of the course.

PHL 201 (F, S)
ART AND CREATIVITY (AESTHETICS)
3 credits **Core I**
A consideration of the philosophical basis for making judgments about the art experience. Designed to acquaint the student with the major features and thinkers of the classical, romantic, and modern periods.

PHL 206 (S)
SOCIAL AND POLITICAL PHILOSOPHY
3 credits **Core I**
A critical examination of the nature of society through the reading and discussion of primary philosophical texts. Themes include: person and society, the foundation of the political order, human rights and law, justice and society, the natural and the social sciences.

PHL 212 (F)
CURRENT ETHICAL ISSUES
3 credits **Core I**
An application of ethical principles to present-day moral problems and controversies. Issues include sexual behavior, nuclear war, abortion and economic justice. Readings drawn

mainly from contemporary philosophical authors.

PHL 213 (F)
PHILOSOPHY OF SPORTS
3 credits
A philosophical investigation of sports and athletics and their significance as a basic human experience. Topics include sports and the achievement of human excellence; sports as a basis of social and cultural structure; and the analysis of sports in philosophical movements such as Marxism and existentialism.

PHL 222 (S)
LOVE AND HUMAN SEXUALITY
3 credits
A philosophical exploration of human love and sexuality. Attention will be given to the connection between the philosophical approach and that of other disciplines. Works by authors such as Plato, Aristotle, Thomas Aquinas, Santayana, Ortega y Gasset and Sartre will be read.

PHL 223 (S)
PERSPECTIVES ON DEATH
3 credits
A study of various philosophical strategies for coming to terms with human death. Western and non-Western sources will be used. Philosophical views on death applied to problems such as aging and dying, suicide and euthanasia, the medical conquest of death, and definitions of death. Of particular value for students choosing careers in the health professions.

PHL 264 (F, S)
CRITICAL THINKING
3 credits **Core I**
Aims at developing the skill of analyzing, interpreting and criticizing arguments from a variety of disciplines. Topics include: clarification of concepts, distinguishing between conclusions and reasons for conclusions, evaluation of

Areas of Study

arguments, and the recognition of fallacies.

PHL 267 (F, S)
PHILOSOPHICAL APPROACHES TO GOD
3 credits **Core I**
A study of philosophical positions about the existence and nature of God. Themes discussed include various concepts of God; the possibility of proof for the existence of God; and the philosophical dimensions of the religious experience.

PHL 269 (F, S)
WORK AND CULTURE
3 credits **Core I**
A philosophical consideration of the relationship between work and other dimensions of human life. Topics include: work and society, work and rationality, work and morality, work and play, work and creativity, work and alienation.

PHL 270
SPECIAL TOPICS
3 credits **Core I**

PHL 303 (S)
AMERICAN PHILOSOPHY
3 credits **Core I**
Broadly conceived as American intellectual history, the history of ideas that shape the American angle of vision: from the Puritan's errand into the wilderness to the birth of the Great Yankee, from democracy as the last, best hope of Earth to William James' courage to believe.

PHL 305 (F)
PHILOSOPHY OF COMMUNISM
3 credits **Core I**
An historical and systematic study of the Communist movement with special emphasis on the writings of Marx and Engels, but with attention to the development of theory and practice among contemporary Marxists.

PHL 308 (S)
THE PHILOSOPHY OF HISTORY
3 credits **Core I**
A study of some of the principal viewpoints about historical knowledge and historical development. Problems discussed include: subjectivity and objectivity, causality and explanation, perspective and relativity in history. The great schemes of historical interpretation also considered.

PHL 309 (F)
THE PHILOSOPHY OF THOMAS AQUINAS
3 credits **Core I**
A study of the philosophical problems which arose in the Middle Ages and of the solutions proposed by Thomas Aquinas. Texts principally from *Essence and Existence* and the *Summa Theologiae*.

PHL 310 (S)
EXISTENTIALISM
3 credits **Core I**
An approach to contemporary phenomenology and existentialism through philosophers such as Husserl, Heidegger, and Sartre. Topics include: the phenomenological method, human existence as process, meaning vs. absurdity, and the overcoming of alienation.

PHL 311 (F 1989)
PROBLEMS OF KNOWLEDGE
3 credits **Core I**
A systematic investigation into the sources, limits, and nature of knowledge. Topics include: meaning and its relation to truth of statements; nature and criteria of truth, role of observation, perspective and conceptualization in the justification of knowledge claims.

PHL 313 (S 1991)
REASON AND REALITY
3 credits **Core I**
A study of the ways in which major philosophers have

answered questions about the basic nature of reality.

PHL 323 (F 1990)
THE PHILOSOPHY OF SCIENCE
3 credits **Core I**
The impact of scientific revolutions on observations and rationality in science studied through the writings of Kuhn and Feyerabend and others. Critical examinations of such concepts in science as scientific method, induction, verification, and falsification.

PHL 325 (S)
SYMBOLIC LOGIC
3 credits **Core I**
A study of the following aspects of symbolic logic: truth functional logic, quantificational logic, logic of relations, proofs of adequacy for the system used, undecidability and incompleteness, the relationship between modern logic and Aristotelian logic.

PHL 326 (F 1989)
HISTORY OF WESTERN PHILOSOPHY: ANCIENT PERIOD
3 credits **Core I**
Philosophy in ancient Greece and Rome, with concentration on Plato and Aristotle.

PHL 327 (S 1990)
HISTORY OF WESTERN PHILOSOPHY: MEDIEVAL AND RENAISSANCE PERIODS
3 credits **Core I**
From St. Augustine through the age of scholasticism to the Renaissance.

PHL 328 (F 1990)
HISTORY OF WESTERN PHILOSOPHY: MODERN PERIOD
3 credits **Core I**
From Hobbes and Descartes to the Enlightenment, with concentration on the rationalists, empiricists, and Kant.

PHL 329 (S 1991)
HISTORY OF PHILOSOPHY:
CONTEMPORARY PERIOD
3 credits **Core I**

A survey of the principal philosophical movements of the last 100 years. Logical positivism, linguistic analysis, phenomenology, existentialism, and deconstructionism.

PHL 330 (F)
THE GREAT PHILOSOPHERS
3 credits **Core I**

An in-depth study of a single major thinker from the philosophical tradition. Emphasis on the critical reading of texts, although attention will be given to the historical setting of the thinker and his/her work.

PHL 337 (S 1990)
PROFESSION AND
PROFESSIONALISM
3 credits **Core I**

An exploration of the relationships of professions to the social order, the shifting definitions of *profession*, and the types of professional/client relationships. Recommended for pre-professional majors in business, medicine, law, social work, nursing and allied health professions.

PHL 338 (S 1991)
CONCEPTS OF LIBERATION:
WOMEN AND MEN
3 credits **Core I**

A critical study of the different accounts of inequality and oppression in the lives of men and women. Special attention to the ideals of liberation in the context of family, work and sexual relations and to the question of innate, or natural, differences between the sexes.

PHL 350 (F)
BUSINESS ETHICS
3 credits **Core I**

Business practices evaluated in the light of ethical principles. Special concern given to moral dimensions of management

decision making and to the ethical problems of consumerism and government control.

PHL 370
SPECIAL TOPICS
3 credits **Core I**

PHL 470
SPECIAL TOPICS
3 credits **Core I**

PHL 480 (S)
SEMINAR
3 credits

An investigation of a philosophical theme chosen each year by the department. Students will write a paper on the theme and present their work to the seminar. The seminar has for its purpose the integration of previous philosophical study. Required of philosophy majors; open to others with approval of Chair.

PHYSICS

(See Geology and Physics.)

POLITICAL SCIENCE

FACULTY

Robert J. Courtney, Ph.D., *Chair*
Professor: Courtney
Associate Professor: Nathans
Assistant Professor: Brogan, Hill

FOUNDATION COURSE

POL 150

CORE COURSES

Approved courses for Core II:

- American Government: POL 240, 241, 242, 243, 330, 331, 332, 341, 343, 344.

- Foreign Government: POL 230, 231, 233, 332, 333, 334.
- Political Theory: POL 232, 342.

REQUIREMENTS

Required for Major in Political Science: 15 courses

- POL 150, 230, 231, 232, 480, 481
- Seven political science electives
- ECN 150, 201

All political science courses except 345-346 and 480-481 are open to all students.

COURSE DESCRIPTIONS

POL 150 (F, S)
AMERICAN FEDERAL
GOVERNMENT
3 credits **Foundation**

An examination of the organization and functions of the federal government of the United States; a study of the separation of powers and relations with states. Required of all political science majors.

POL 230 (S, F)
WESTERN EUROPEAN POLITICS
3 credits **Core II**

A political analysis of the constitutional principles and governmental organizations of England, France, and Germany. Required of all political science majors.

POL 231 (F, S)
INTERNATIONAL RELATIONS
3 credits **Core II**

An analysis of the basic patterns and major factors underlying international politics. Consideration of current international problems. Required of all political science majors.

POL 232 (S)
SURVEY OF POLITICAL THOUGHT
3 credits **Core II**

An analysis of the major political writers from Plato to the present. Emphasis on each author's concept of the state, its function and end, and his solution to the

Areas of Study

problem of the reconciliation of the common good with individual freedom. Required of all political science majors.

POL 233 (F)
POLITICAL GEOGRAPHY
3 credits **Core II**
A survey of the geographic factors influencing the real and potential economic and political development of nations.

POL 240 (S 1990)
AMERICAN STATE GOVERNMENT
3 credits **Core II**
A study of the state as a partner in the federal system; the states' constitutional development; and principles underlying state governmental organization, reorganization, and functions.

POL 241 (S 1991)
MUNICIPAL GOVERNMENT
3 credits **Core II**
A study of the organization and functions of government at the municipal level and an analysis of trends and types of municipal governments.

POL 242 (S)
AMERICAN POLITICAL PARTIES
3 credits **Core II**
A view of the political problems of the United States as revealed in the major and minor political parties that have arisen during the country's history.

POL 243 (F)
AMERICAN CONSTITUTIONAL LAW I
3 credits **Core II**
A case study approach utilizing Supreme Court decisions provides an analysis of the governmental structure of the United States. Principal topics include: judicial review, separation of powers, federalism, extent and limit of Congressional and Presidential authority, the commerce and fiscal clauses of the Constitution. (Required of all Public Administration majors).

POL 320-321 (F, S)
URBAN STUDIES
3-6 credits
Identical with ECN 320-321.

POL 330
U.S. FOREIGN RELATIONS I
3 credits **Core II**
A study of the diplomatic and military instruments of American foreign relations, the formal and informal powers and processes by which policy is made, and the basic patterns of national interest and policy prior to World War II.

POL 331 (S)
U.S. FOREIGN RELATIONS II
3 credits
An analysis of the main problems of American foreign relations from 1945 to the present.

POL 332 (F)
THE POLITICS OF THE SOVIET UNION
3 credits **Core II**
An examination of the major elements that determine the nature of Soviet polity, including the role of the Communist Party, the relationship between the party and government, the growth of dissent within the Soviet Union, and future prospects for Soviet society.

POL 333 (F 1989)
LATIN AMERICAN POLITICS
3 credits **Core II**
An examination of the common institutions and political practices that characterize Latin American governments. Mexico examined as an illustration of these institutions and practices.

POL 334 (F)
THE MIDDLE EAST AND THE WORLD
3 credits **Core II**
A study of modern Middle Eastern politics, with emphasis on the origins, issues and present stage of the Arab-Israeli conflict; an analysis of Western and Soviet foreign policies in the area, with

emphasis on America's mideast diplomacy.

POL 341 (S)
THE LEGISLATIVE PROCESS: THE U.S. CONGRESS
3 credits **Core II**
The role of Congress in the legislative process; its internal operations and external political relations; especially with the President. Comparison of the characteristics of Congress with those of state legislatures and European legislative bodies.

POL 342 (F)
MODERN POLITICAL IDEOLOGIES
3 credits **Core II**
An analysis of the development of "ideological" thinking against the background of the growth of liberal democratic thought. Emphasis on examination of the conceptions of man, history, state, and revolution. Readings from original sources: Locke, Rousseau, Marx, Lenin, Hitler, and Nietzsche

POL 343 (S)
AMERICAN CONSTITUTIONAL LAW II
3 credits **Core II**
A case study approach utilizing Supreme Court decision provides an analysis of the individual's relationship to the government under our Constitution. Principal topics include rights under the early Constitution, the incorporating process, First Amendment rights, procedural rights of the accused, equal protection and political rights. (Strongly recommended: Constitutional Law I).

POL 344 (S)
BUREAUCRATIC POLITICS AND ADMINISTRATION
3 credits **Core II**
Analysis of bureaucracy within the national and urban context; internal characteristics and external political relationships with executives and legislatures, including unionization of

Areas of Study

bureaucratic personnel, budgetary relationships, innovation and the relationships of bureaucracy with clientele groups and the general public.

POL 345 (F, S)**POLITICAL SCIENCE INTERNSHIP I**
3 credits

Designed to give students the opportunity to apply their academic interest to relevant positions in the community. Placements will be provided and the students will be expected to give a comprehensive report on their experiences. A foundation in political and social science is a prerequisite for this course.

POL 346 (F, S)**POLITICAL SCIENCE INTERNSHIP II**
3 credits

With the permission of the Director, a second semester involving a different experience may be undertaken.

POL 370 (F, S)**SPECIAL TOPICS OR INDEPENDENT STUDY**
3 credits

As interests indicate, special programs may be introduced into the curriculum discussing highly specialized problems for group or independent study.

POL 480 (F)**SEMINAR I**
3 credits

A study of methods of research and scholarly writing. Directed research and reports on individual assignments. Required of all political science majors.

POL 481 (S)**SEMINAR II**
3 credits

Supervised research and writing on major topic. Weekly presentation and group discussion of individual papers. Submission of written thesis. Required of all political science majors.

POLITICAL SCIENCE/PUBLIC ADMINISTRATION

(Administered by the Chair, Political Science Department)

Required for Major in Political Science/Public Administration: 15 courses

- POL 150, 232, 240, 241, 243, 344, 480, 481
- ECN 150, 201, 213 or QNT 213.
- ACC 101, 102
- CSC 151
- HRM 300

PSYCHOLOGY

FACULTY

David J. Falcone, Ph.D., *Chair Professors*: Dondero, McCarthy, Rooney

Associate Professors: Burke, Falcone, Filicetti, Gilligan, Kovatch, Oden, Schreiner, Smith
Assistant Professor: Pritchard

FOUNDATION COURSE

PSY 150

CORE COURSES

Approved courses for Core II: PSY 150, 201, 203, 206, 315. You may choose *one or two* psychology courses to fulfill Core II requirements.

REQUIREMENTS

Required for Major in Psychology:
Track 1: 12 courses; Track 2: 13 courses; Track 3: 13 courses

Track 1: Pre-Graduate

- PSY 150, 201, 210, 211, 319, 320

- Four electives in psychology (including at least two at the 400-level)
- Two courses in mathematics

Track 2: General Studies

- PSY 150, 210, 211, 340 or 319, 364
- Six electives in psychology (including two at the 400-level)
- Two courses in mathematics

Track 3: Work Psychology

- PSY 150, 201, 210, 211, 306, 319, 320, 360, 460, and SPSS course
- Two courses in mathematics
- CSC 151 or 155

Preparation for careers and graduate study in Consumer Psychology, Human Factors, Industrial/Organizational Psychology, and Personnel Psychology.

COURSE DESCRIPTIONS

PSY 150**GENERAL PSYCHOLOGY**
3 credits**Foundation**

Introduction to the scientific study of human behavior. Emphasis on methods of psychological research and principles and theories developing from this research.

PSY 201 (F, S)**ADVANCED GENERAL PSYCHOLOGY**
3 credits

Introduction to selected content areas of experimental psychology, including psychobiology, sensation and perception, and cognitive processes. Prerequisite: PSY 150.

PSY 203 (F, S)**DEVELOPMENTAL PSYCHOLOGY**
3 credits

A general study of the development of behavior and the human personality from conception through adulthood; special emphasis on childhood and adolescence. Prerequisite: PSY 150.

Areas of Study

PSY 205 (S)

AGING: PSYCHOLOGICAL ISSUES
3 credits

An introduction to the scientific study of aging. Theories, principles and research findings that are of a psychological nature will be studied. Prerequisite: PSY 150.

PSY 206 (F, S)

PERSONALITY DYNAMICS AND
ADJUSTMENT

3 credits

An analysis of the human system, the dynamics of individual behavior, and a consideration of resources necessary for effective living as they are related to a better understanding of personal adjustments in healthy persons developing toward maturity. Prerequisite: PSY 150.

PSY 210 (F)

STATISTICS I

3 credits

An introduction to statistics, emphasizing such descriptive measures as central tendency, variability and correlation. Prerequisites: MTH 115-116 or equivalent.

PSY 211 (S)

STATISTICS II

3 credits

An intermediate course in inferential statistics, emphasizing such techniques as the analysis of variance and t-tests. Prerequisite: PSY 210 or equivalent.

PSY 301 (F, S)

EDUCATIONAL PSYCHOLOGY

3 credits

Identical with Education 203.

PSY 306 (S)

TESTS AND MEASUREMENTS

3 credits

The selection, administration, and interpretation of psychological tests used in the measurement of aptitudes, achievement, interest, and personality. Prerequisites: PSY 150, 210 or equivalent.

PSY 312 (F)

BAYESIAN STATISTICS FOR
SOCIAL SCIENTISTS

3 credits

Clarification of the meaning of statistical calculations and analysis from the Bayesian point of view. Data descriptions and the problem of inferences are contrasted with traditional statistical treatments.

Prerequisite: A two-semester course in introductory statistics.

PSY 315 (F, S)

ABNORMAL PSYCHOLOGY

3 credits

An introductory course surveying the principal forms of the major and minor mental disorders, with emphasis on the causes, symptoms, and treatment. An analysis of the over-all problem of mental illness and a study of certain borderline personality and behavioral patterns and other forms of psychological deviation. Prerequisite: PSY 150 or permission of chair.

PSY 319 (F)

EXPERIMENTAL PSYCHOLOGY I

4 credits

A laboratory course designed to introduce the student to the classical psychological experiments and the methods of experimental design and research. Experiments on the sensory processes, perception, learning, memory, thought processes, and emotions. Prerequisites: PSY 201 and 211 or permission of Chair. Three hours lecture, two hours laboratory.

PSY 320 (S)

EXPERIMENTAL PSYCHOLOGY II

4 credits

Lectures and discussions on modern experimental psychology. For laboratory work, the student plans, designs, and performs an original research experiment. Prerequisite: PSY 319. Three hours lecture, two hours laboratory.

PSY 325 (F)

READINGS IN PSYCHOLOGY

3 credits

Readings consist of basic books and periodicals having relevance for the broad field of psychology; assignments discussed in seminar fashion. Prerequisite: PSY 150.

PSY 330 (S)

COGNITIVE PSYCHOLOGY

3 credits

A systematic study of the research and theories developed to explain human memory, language, thinking, and consciousness. Prerequisite: PSY 201.

PSY 340 (S)

METHODOLOGY FOR STUDIES
AND RESEARCH

3 credits

A study of the nature of scientific research methodology; emphasis on critical reading and evaluating reports of studies and research; development of skill in writing review papers; utilization of research literature in the behavioral sciences; data analysis and critiques of extant research. Prerequisites: PSY 150, 210.

PSY 350 (F, S)

EFFECTIVE COMMUNICATION

3 credits

A deepening understanding of, and personal growth experiences in, the art of interpersonal communication. Attention given to listening and empathy, discussion and decision making, confrontation and conflict management, attitudinal systems and Gestalt, verbal and non-verbal communication, creative goal-setting, individual and social growth.

PSY 360 (F)

INDUSTRIAL AND BUSINESS
PSYCHOLOGY

3 credits

A study of those psychological principles, methods, and techniques which are especially relevant to an understanding of

human relations and efficiency in business and industry.
Prerequisite: PSY 150.

PSY 364 (S)
SOCIAL PSYCHOLOGY
3 credits

A study of the facts and theories dealing with the phenomena of social behavior. Focuses on individual behavior as it affects and is affected by the behavior of others. Prerequisite: PSY 150.

PSY 406 (F, S)
COUNSELING THEORIES AND PRINCIPLES
3 credits
Theories and principles of the counseling process. The dynamics of human change. The objectives, work, and continuing problems of counseling. Prerequisite: PSY 150.

PSY 407 (F)
THEORIES OF LEARNING
3 credits
An analysis of the principal theories of learning in the light of recent experiments in animal and human learning. Prerequisite: PSY 201.

PSY 408 (F)
THEORIES OF PERSONALITY
3 credits
A systematic study of the principal theories of personality with particular emphasis on recent trends, research methodology, and personality measurement. Prerequisite: PSY 150.

PSY 409 (F)
HISTORY AND SYSTEMS OF PSYCHOLOGY
3 credits
An examination of the beginnings and development of psychology as a science and profession and of its various approaches, systems, fields, problems and applications; the historical roots of these in philosophy, biology, and national culture. Prerequisite: junior or senior standing as psychology major.

PSY 420 (S)
PHYSIOLOGICAL PSYCHOLOGY
3 credits
An introduction to the neurological and endocrinological bases of behavior. Consideration of sensory and motor processes, motivation and emotion, learning and memory. Prerequisite: PSY 201. Two hours lecture, two hours laboratory.

PSY 460 (S)
HUMAN FACTORS
3 credits
Human Factors deals with the study of people in their working and living environments, and the application of this knowledge to practical problems encountered in the home, business and industry. Prerequisites: PSY 211, 360.

PSY 470-471. (F, S)
SPECIAL TOPICS IN PSYCHOLOGY
3-6 credits
Content will vary each year to present the psychological underpinnings of issues on the contemporary American scene. Such topics as the psychology of drug use, of prejudice, of human sexuality, of attitude change, and of religion will be treated in various semesters. Prerequisite varies with topic.

PSY 480 (F)
SEMINAR I
3 credits
Readings, discussion, and analysis of contemporary psychological theories and research; individual student research and presentation of paper. Prerequisite: junior or senior standing as psychology major.

PSY 481 (S)
SEMINAR II
3 credits
A continuation of PSY 480 with primary focus on topics judged by students and faculty to be particularly relevant for present day psychology majors.

Prerequisite: junior or senior standing as psychology major.

PSY 485-486 (F, S)
PSYCHOLOGICAL RESEARCH OR PRACTICUM
3-6 credits
Offers the student the option of conducting a research project under the direction of a faculty member or of obtaining practical experience serving in an institutional setting under professional supervision. Students preparing for careers or graduate study in clinical areas of psychology can select from numerous practicum placements. Students in the Work Psychology track may select a practicum placement available with Sun Oil Company or other local businesses. Program planned in advance. Prerequisite: junior or senior standing as a psychology major. One or two terms.

RELIGION

FACULTY

David P. Elroymsen, Ph.D., *Chair*
Professors: Biechler, Elroymsen, Kelly
Associate Professors: Davis, Grosnick, Keenan, McGinniss, Schepers
Assistant Professor: Halligan
Lecturers: Devlin, Echelmeier, Heine, Luetzow, Reizburg, Van Everbroeck

FOUNDATION COURSES

REL 151, 152, 153

CORE COURSES

Approved for Core I:
You may fulfill the requirements for Core I A by selecting any *one* or *two* religion course(s) *except* REL 151, 152, 153, 225, 243, 323, 480.

Areas of Study

REQUIREMENTS

Required for Major in Religion: 13 courses

- REL 151 and either 152 or 153.
- Eleven religion electives, including at least one from each of the four study areas (biblical, theological, historical, and religious) and REL 480. At least one of these electives must be in a religious tradition outside of Judeo-Christianity.

Religion majors may choose the major program as described above or:

Religion-Education:

- The religion major requirements (chosen, with the guidance of the Chairperson, in view of a career in teaching), plus EDC 203, 204, 301, 470-471-472.

Note: Religion is a subject not accredited by the various states; therefore the Pennsylvania Instructional I Certificate is not issued to Religion-Education majors. This forms no impediment whatever to placement in schools which teach religion.

COURSE DESCRIPTIONS

REL 151 (F, S)

THE BIBLE

3 credits

Foundation

A study of the foundational religious literature of Jews and Christians; its origins and growth; the history and the religious and theological ideas of the people who produced these writings, and the Near-Eastern cultures and literature which contributed to them.

REL 152 (F, S)

CATHOLICISM IN THE MODERN WORLD

3 credits

Foundation

An historical and theological introduction to the study of Catholicism as it shapes and is shaped by the social, economic,

political, and religious contexts of the late twentieth century.

Selected contemporary issues facing Catholicism will be studied in light of the history of the issue and current theological thought.

REL 153 (F, S)

THE DYNAMICS OF RELIGION

3 credits

Foundation

A study of the diverse patterns of thought, behavior, and social structures which express human religious experience. Designed to foster an understanding of the importance of religion in society, in social change, and in personal identity and transformation.

Biblical Studies

REL 212 (S)

THE PROPHETS OF ANCIENT ISRAEL

3 credits

Core I

Prophecy and prophetic literature in the Bible. Prophecy as an institution in the Near East; its unique development in Israel. Theological message of the biblical prophets.

REL 214 (F)

THE SYNOPTIC GOSPELS

3 credits

Core I

How did the Gospels develop? How historically reliable are they? What value have they as sources for a study of the person of Jesus of Nazareth? What is Form Criticism? Source Criticism? The state of contemporary biblical scholarship? These points will be illustrated through a guided study in the synoptic Gospels: Matthew, Mark, Luke.

REL 215 (S)

THE GOSPEL OF JOHN

3 credits

Core I

What is a gospel? The place of the Fourth Gospel in the context of early Christianity. A study of the meaning, literary technique, and theological themes of John. Brief study of other works in the Johannine group of writings.

REL 216 (F)

ST. PAUL

3 credits

Core I

A study of the earliest Christian literature; the letters of Paul: background and context—the primitive church; analysis of the texts; problems and tentative solutions; Paul's contribution to Christianity yesterday and today.

REL 311

CONTEMPORARY BIBLICAL ISSUES

3 credits

Core I

Specific problems in Israel or in New Testament Christianity as reflected in their literature. Content to be specified at registration.

Theological Studies

REL 220 (S)

THE CHURCH: ISSUES AND PROBLEMS

3 credits

Core I

A brief study of the origins of the Church, and an examination of the various modes in which Church has been and can be understood. Social structure and dynamics of the Church and her mission in today's world.

REL 221 (F)

ISSUES IN CHRISTOLOGY: JESUS AND HIS ACHIEVEMENT

3 credits

Core I

The person, mission, and achievement of Jesus in the New Testament. Post-biblical church reflections on the tradition. Contemporary attempts to reinterpret Christology and to draw existential implications.

REL 222 (F)

THE SACRAMENTS

3 credits

Core I

An inquiry into the origin and development of the Christian symbols highlighting some of the problems of modern sacramental theology.

Areas of Study

REL 223 (F) CONTEMPORARY MORAL ISSUES 3 credits **Core I**

Study discussion of a variety of moral perspectives on selected current issues: War. Racism. Sexual Conduct. Abortion. Euthanasia. Women's Rights. Capital Punishment.

REL 224 (S) HUMAN EXISTENCE AND RELIGIOUS BELIEF 3 credits **Core I**

An inquiry into the nature of religious faith and into the issues that surface when believers come alive to the realities of modern life. The relation between action and contemplation. The question of faith and history. The combination of religious belief and morality. The influence of faith on social institutions and vice versa.

REL 225 (F, S) A CONTEMPORARY THEOLOGY OF MARRIAGE 3 credits

Critical investigation and re-evaluation of traditional assumptions about the meaning and function of human sexuality and inter-sexual relationships. The historical and ideological circumstances in which they developed. The construction of a theology of marriage which takes critical account of contemporary physical and psycho-social sciences.

REL 320 THEOLOGICAL ISSUES 3 credits **Core I**

Selected theological topics of current controversy. Content to be specified at registration.

REL 321 (S) PEACE, JUSTICE, AND THE CHRISTIAN TRADITION 3 credits **Core I**

Fundamental principles which have influenced religious thinking about and action for peace and justice. Principal focus on

Western Christian thought, but peace and justice traditions of other world religions may also be included.

REL 322 (S) WORSHIP, ART, AND LIFE 3 credits **Core I**

A study of the shape and practice of worship, especially in Roman Catholic liturgy. Skills in planning and criticizing liturgy. Past and present role of arts in liturgy: architecture, music, dance, etc. The Japanese tea ceremony demonstrating how ritual operates in a foreign but analogous ceremony.

REL 323 (F) BIOMEDICAL PROBLEMS 3 credits

Study/discussion of selected ethical dilemmas arising from recent advances in biology, medicine, and the behavioral sciences. E.g., Abortion/Euthanasia. Death. Genetic Intervention. Informed Consent. Human Experimentation. Presupposes no special knowledge of biology or medicine.

REL 324 (F) CHRISTIAN SPIRITUALITY: THE SEARCH FOR GOD, FREEDOM, AND COMMUNITY 3 credits **Core I**

Historical and reflective study of the ways people in the Christian West strive to find God, and thus to achieve self-integration in the context of ecclesial community. The origins and development of monasticism; the clerical ideal; the emergence of lay spiritualities; the means employed in reaching for perfection (asceticism, prayer, mysticism) and the call to discipleship.

Historical Studies

REL 330 (S) EARLY CHRISTIANITY: CRISIS AND PROCESS 3 credits **Core I**

An exploration of the issues around which Christianity of the first four centuries took form: the struggle with the Roman Empire; the confrontation with Hellenistic philosophy and religion; Jewish Christianity, gnosticism, and the development of "orthodoxy." The effect of all this on the origin and shape of certain ideas and institutions such as Christology, church, papacy, interpretation of history, and sex.

REL 331 (F) DEVELOPMENT OF CHRISTIANITY IN THE MIDDLE AGES 3 credits **Core I**

A study of religion in the Middle Ages and Renaissance periods concentrating on such popular movements as the Cathars, Waldensians, Fraticelli, Lollards, and Beguines, as well as on such phenomena as millenarism, reformation, and conciliarism. Relation of these movements and phenomena to the evolution of art, the inquisition, papacy, universities, and monasteries. The religious and ethical implications of humanism and capitalism.

REL 332 (239) (F) THE REFORMATION AND THE CATHOLIC RESPONSE 3 credits **Core I**

A critical audition of the religious voices of the Reformation era, with attention to their origins, context, and peculiarities. Special treatment to the important reformers both on the Continent (Luther, Calvin, Zwingli, Bucer) and in the British Isles (Cranmer, Knox), as well as to pertinent Catholic thought (Council of Trent).

Areas of Study

REL 334 (332) (S)
MODERN RELIGIOUS THOUGHT
3 credits **Core I**

A critical examination of the great religious movements of the 19th and 20th centuries that have most contributed to the present religious situation. The encounter between Christian thought and philosophy and natural science. The confrontation between Existentialism and religious Idealism; the Oxford Movement; the Marxist critique of religion; the origins of biblical criticism; and the clash between conservatism and liberalism in Protestant and Catholic Church circles.

REL 336 (230) (S)
RELIGION IN AMERICA
3 credits **Core I**

A study of the major religious movements within the Roman Catholic and Protestant churches in the United States from the American Revolution to the present day. Theological implications for the churches of such movements as the American Revolution, the Great Awakening, the Abolitionist Movement, the Civil War, the Gospel of Wealth, the Great Depression, World War II, Vatican II, and the nuclear threat.

Religious Studies

REL 240 (F)
THE GREAT RELIGIONS OF THE WORLD
3 credits **Core I**

A survey of the great world religions: Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism and Taoism. Topics to be covered: world view, basic doctrines and practices, major figures, the role of women, and impact on contemporary world culture. Readings from the scripture of each tradition, as well as secondary sources.

REL 243 (F)
RELIGIOUS ATTITUDES IN MODERN LITERATURE
3 credits

An introduction to the meeting between religion and literature as found in the writings of Dostoevsky, Kafka, Bernanos, Eliot, Camus, Beckett, Kazantzakis, and in some of the poetry of Yeats, Auden, Frost, Roethke. A variety of literary forms will be examined to discern the writers' religious intentions. Topics include: Can an "atheist" be religious? Is God present in a book which makes no mention of him? What is meant by the term "religious"? Traditional issues—the problem of evil, the moral dilemma, human freedom—explored. Identical with ENG 243.

REL 244 (F, S)
WOMEN AND RELIGION
3 credits **Core I**

The influence of religion through history in the shaping and legitimization of women's roles and identity. The religious experience of women, and the extent to which feminine religiousness and holiness might be different. The recovery or refashioning of leadership roles. The feminist critique of "patriarchal" religion and theology; the consequent alternatives of disaffiliation or reconstruction.

REL 340 (F)
THE RELIGIONS OF INDIA
3 credits **Core I**

A study of the origin, development, and structure of Hindu traditions. Vedic beginnings. Major reform movements. Sects and schools of interpretation. Yoga, bhakti, and mystical traditions. Recent developments.

REL 341 (S)
BUDDHISM AND THE RELIGIONS OF CHINA AND JAPAN
3 credits **Core I**

A study and discussion of the rise of Buddhism and its subsequent division into Theravada and Mahayana Buddhism. Its Chinese and Japanese mutations (Pure Land and Zen). Confucianism, Taoism, Shinto, Modern phenomena: Soka Gakkai and Maoism.

REL 342 (F, S)
JUDAISM
3 credits **Core I**

A study of the historical origin, roots, and developments of Judaism as a religion, as well as a cultural, civil, and ethnic group. The course will evaluate Jewish social and educational values as well as religious problems and attitudes among Jews today.

REL 344 (S)
ISLAM
3 credits **Core I**

Background and development: the prophet, the Qur'an, Muslim traditions and values; theological development, inner tensions, contemporary movements, confrontation with the non-Muslim world.

Special Studies

REL 270, 370, 470 (F, S)
SPECIAL TOPICS IN RELIGION
3 credits **Core I**

Content of the course will be announced whenever it is offered. May be repeated for credit.

REL 480 (F)
SEMINAR
3 credits

An introduction to scholarly research through the selection, writing, and small-group presentation of formal papers in a specific area determined by the instructor. Required of all religion majors; open to others approved by Chair. Prerequisite: 15 hours of

Areas of Study

religion. May be taken in junior or senior year.

SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

FACULTY

John F. Connors, Ph.D., *Chair*
Professor: J. F. Connors
Assistant Professors: Bird,
Coleman, J. T. Connors,
Hornum, Montgomery, Otten, Stull
Lecturer: Tri Nguyen

FOUNDATION COURSES

SOC 150, 151

CORE COURSES

Approved courses for Core II:
SOC 203, 207, 208, 210 (SWK 210),
212, 213, 305, 306, 308, 309, 310,
363, 364 (SWK 363, 364).

REQUIREMENTS

Required for Sociology Majors:
SOC 150, 301-302, 310, 480-481,
three 200-300 level sociology
courses, and three electives in
sociology, social work or criminal
justice. Also recommended:
ECN 150, 201; POL 150; CSC 151 or
155.

COURSE DESCRIPTIONS

SOC 111 (F, S)

MARRIAGE AND FAMILY

3 credits
A consideration of the historical
development of the family,
variations of family structure in
contemporary societies, and
current trends in American family
patterns.

SOC 150

INTRODUCTORY SOCIOLOGY

3 credits **Foundation**

An introduction to the structure
and functioning of society with
emphasis on American society but
with cross cultural comparisons.
Theoretical concepts, empirical
findings, and research methods
are stressed.

SOC 151

SOCIAL PROBLEMS AND SOCIAL JUSTICE

3 credits **Foundation**

An exploration of how social
conflict and social organization
affect human and societal
well-being. Topics: mental health,
personal safety, economic
well-being, and intergroup
relations in an industrial society
and a developing nation.

SOC 203 (F)

SOCIOLOGY OF WORK

3 credits **Core II**

Analysis of the social organization
of work in modern societies, the
concept of career, the
development of
professionalization, the nature of
work-satisfaction and the impact
of bureaucratization.
Occupational subcultures such as
law, medicine, public service, the
military, and education
considered.

SOC 207 (S)

THE CITY: CONFLICT AND CHANGE

3 credits **Core II**

A study of world cities; their
growth and impact on personality;
urban violence and its control;
fragmentation, economic
problems and city/suburban
conflicts. Efforts at neighborhood
development and metropolitan
planning will also be discussed.

SOC 208 (F)

POPULATION AND ECOLOGY

3 credits **Core II**

A study of the effects on the
quality of life caused by
population growth and patterns of

consumption in developing and
industrial nations. Trends in
mortality and fertility, causes and
consequences of these trends,
and population policies explored.

SOC 210 (S)

SEX, POWER, AND SOCIALIZATION

3 credits **Core II**

An exploration of male and female
gender roles in the contemporary
United States. An examination of
socialization in childhood and
adulthood, sexual politics, and
power structures and dynamics
within the family and the
workplace. Special attention to
the effects of class and race on
gender role formation. Identical
with SWK 210.

SOC 212 (F, S)

ETHNICITY AND RACE IN THE UNITED STATES

3 credits **Core II**

An analysis of the structure and
dynamics of dominant/minority
relations in historical and
contemporary contexts. Emphasis
on the sociological analysis of
ethnic and racial discrimination
and inquiry into the sources of
conflict between dominant and
minority groups.

SOC 213 (F)

HUMAN NATURE, CULTURE AND SOCIETY

3 credits **Core II**

An anthropological study of the
origin and descent of humans and
of the role of culture in explaining
the variations and constants in
human behavior.

SOC 301 (F)

SOCIAL STATISTICS I

3 credits

An introduction to such
descriptive statistics as central
tendency measures, variability,
correlation and regression.
Analysis of cross-tabulated data
will be facilitated through the use
of SPSSX computer software
programs. No prior knowledge of
computers assumed.

Areas of Study

SOC 302 (S)

SOCIAL STATISTICS II

3 credits

Basically a course in inferential statistics beginning with a discussion of probability, binomial distributions, and normality. Both parametric and non-parametric statistics covered. Continued use of computer technology in the analysis of survey research results as well as those collected using qualitative methodologies. Prerequisite: SOC 301 or permission of instructor.

SOC 305 (F)

SOCIETY AND THE INDIVIDUAL

3 credits

Core II

The study of the influence of society and culture, as mediated by the social group, on the social, cultural, and personal behavior of the individual. Prerequisite: SOC 150 or 151, or permission of instructor.

SOC 306 (F)

BUREAUCRACY AND SOCIETY

3 credits

Core II

An examination of the nature and effects of modern, large-scale organizations. Focus on both private sector corporations and public sector bureaucracies. Prerequisite: SOC 150 or 151, or permission of instructor.

SOC 308 (S)

SOCIAL INEQUALITY AND SOCIAL MOBILITY

3 credits

Core II

A study of economic, social and political inequalities and of social mobility. Emphasis on the causes, patterns, and consequences of such inequalities. The United States compared with other industrial as well as non-industrialized nations. Prerequisite: SOC 150 or 151, or permission of instructor.

SOC 309 (S)

MEDICAL SOCIOLOGY

3 credits

Core II

A study of the relationship between social factors and health,

the interaction between practitioners and patients, the health care delivery system, and some contemporary issues such as malpractice and human experimentation.

SOC 310 (F, S)

SOCIOLOGICAL THEORY

3 credits

Core II

A survey of the development of social thought from August Comte to contemporary theorists. An attempt to see the evolution of social theory within the social context of the theorist's milieu. Prerequisite: SOC 150 or 151, or permission of instructor.

SOC 312

SOCIAL CHANGE AND SOCIAL MOVEMENTS

3 credits

Core II

An examination of the dynamics of social change, of sustained collective movements seeking change, and of the reactions they generate.

SOC 363-364 (F, S)

SOCIAL POLICY I and II

3 credits

Core II

(Identical with Social Work 363-364.)

SOC 270, 370, 470 (F, S)

SPECIAL TOPICS IN SOCIOLOGY

3 credits

Designed to cover special or emerging interests in sociology. Topics have included: sociology of conflict, the Holocaust and its causes, computers and society, juvenile delinquency, and gerontology.

SOC 480 (F)

RESEARCH SEMINAR I

3 credits

An overview of research methodology. Such research data collection methods as questionnaire designs, interviewing and observations will be discussed. Topics covered will include the ethics of human experimentation and evaluation

techniques. Offered in alternate years.

SOC 481 (S)

RESEARCH SEMINAR II

3 credits

Original research in one area of social reality employing a research method of the student's choosing. Offered in alternate years.

CRIMINAL JUSTICE

FACULTY

Finn Hornum, M.A., *Director*
Laura Otten, Ph.D., *Field Coordinator*

REQUIREMENTS

Required for Criminal Justice Majors: CRJ 221, 222, 385, 485-486 and two additional criminal justice courses; SOC 150, 301-302, 310 and two 200-300 level sociology courses designated within the department.

COURSE DESCRIPTIONS

CRJ 220 (S)

JUVENILE DELINQUENCY

3 credits

Comparative and historical survey of juvenile delinquency and juvenile justice. Study of the nature, magnitude, and social location of youth crime; analysis of causal theories; overview of programs aimed at delinquency prevention and control.

CRJ 221 (F)

CRIME AND ITS CAUSES

3 credits

A study of the sociological and social psychological foundations of crime and delinquency. Topics include: the definition and meaning of crime and delinquency, the etiology of crime and delinquency, the history and

Areas of Study

development of the criminal law, criminal behavior systems.

CRJ 222 (S)

INTRODUCTION TO CRIMINAL JUSTICE

3 credits

A consideration of law enforcement, the administration of justice and the punishment and treatment of criminals. A survey of the sociological and social psychological processes affecting the criminal justice system. Topics include: the police function, crime prevention programs, the prosecutorial and defense functions, judicial administration and decision-making, institutional and community-based corrections, probation and parole.

CRJ 223 (S)

CRIMINAL LAW

3 credits

An exploration of the basic concepts and legal and sociological issues in criminal law. Attention to: development of law, legal elements of crime—both in general and specific offenses; legal requirements for criminal defenses; differing theories of punishment. *Pennsylvania Crimes Code* used as a reference.

CRJ 225 (F)

CRIMINAL PROCEDURE

3 credits

Constitutional issues related to the criminal justice process. Case analysis deals with issues such as search and seizure, stop and frisk, arrest, confessions, right to counsel, jury trials, and other significant Supreme Court decisions.

CRJ 270, 370, 470 (F, S)

SPECIAL TOPICS IN CRIMINAL JUSTICE

3 credits

Designed to address current issues in criminal justice. Topics: victimology, crime prevention, forensic criminology, counseling,

criminal justice administration, and criminological research.

CRJ 324 (S) (224)

POLICE: ORGANIZATION AND FUNCTIONS

3 credits

An investigation of the organization, legal powers, and functions of the police. Topics include: police organizational structure, police responsibilities such as patrol, arrest, and investigation, police-community relations, and topical issues on police and society, such as police use of force, police corruption, and required education and training for police.

CRJ 325 (S)

THE COURTS: ORGANIZATION AND FUNCTIONS

3 credits

An in-depth exploration of the structure, players, functions, and issues that make up the criminal courts of America. This exploration employs an adversarial approach, thereby mimicking the very essence of court procedure and developing students' awareness of the strengths and weaknesses of our criminal courts.

CRJ 326 (F) (226)

CORRECTIONS: PRISONS, PROBATION AND PAROLE

3 credits

Intensive examination of the correctional process in the United States and other countries. Topics include: the objectives of punishment, sentencing policies and procedures, capital punishment, imprisonment and community corrections.

CRJ 385 (F)

THEORIES OF DEVIANCE

3 credits

An intensive analysis of contemporary theories of deviant behavior. Theories examined through seminar discussions of primary materials and critiqued by consideration of research

findings. Social policy implications discussed and specific criminal justice programs considered in the light of these theories.

CRJ 386 (S)

SYSTEMS OF CRIMINAL BEHAVIOR

3 credits

Selected criminal behavior systems examined in depth through readings, group projects, field interviews, and field trips. Offerings include such forms of criminal behavior as organized crime, elite deviance, violent crime, crimes without victims, and international terrorism.

CRJ 387 (F)

GENDER, CRIME, AND JUSTICE

3 credits

An investigation of the facts and ramifications of being female and involved in the criminal justice system. Females considered in their roles as offenders, victims, and practitioners and contrasted with males to see whether sex makes a difference in handling, system response, outcome, practitioner success, etc. Efforts will be made to explain whatever differences are found between females and males.

CRJ 485-486. (F, S)

FIELD SEMINAR IN CRIMINAL JUSTICE

6-12 credits

Field placement in law enforcement, legal and correctional agencies, evaluative seminar sessions with instructors, and completion of a field-oriented project. Students may elect to take both courses in one semester (four days per week, six hours per day in the field and six hours of seminar session per month). Alternatively, students may elect to take the courses sequentially over two semesters (two days per week, six hours per day in the field and two hours seminar per month). Students are placed in criminal justice agencies related to their interests and receive

Areas of Study

individual supervision by a field supervisor employed by the agency and a faculty liaison person. Prerequisite: CRJ 385.

SOCIAL WORK

Council on Social Work Education
Accredited Baccalaureate Program

FACULTY

Sybil Montgomery, M.S.S.,
A.C.S.W., *Director*
Patty A. Coleman, M.S.S., A.C.S.W.,
Field Instruction Coordinator

REQUIREMENTS

Required for Social Work Majors:
SWK 202, 361-362, 363-364,
461-462, 463-464, 465; PSY 150,
203; ECN 203; a political science
course; BIO 156; SOC 150, 301-302,
310; and two 200-300 level
Professional Development
electives.

Students are encouraged to use
these and their free electives to
build a concentration in their
personal areas of interest, e.g.,
Business Administration, Criminal
Justice, Psychology, Sociology,
Spanish, Political Science, Urban
Studies, Women's Studies.

COURSE DESCRIPTIONS

SWK 202 (S)

INTRODUCTION TO SOCIAL
WORK AND SOCIAL WELFARE
3 credits

Provides a foundation for social
service practice and social policy
analysis, including a basic
understanding of fundamental
human needs, of populations at
risk in this society, and of the
social service delivery system.

SWK 210 (S)

SEX, POWER AND SOCIALIZATION
3 credits **Core II**
Identical with SOC 210

SWK 270, 370, 470 (F, S)

SPECIAL TOPICS IN SOCIAL WORK
3 credits

Designed to address
contemporary issues in social
policy and social work practice.
Topics: gerontology, mental
health, child welfare, family
violence, and others. Students are
advised to check with the
Program Director about current
offerings and about whether
course meets distribution
requirement.

SWK 361 (F)

SOCIAL WORK THEORY AND
PRACTICE I
3 credits

The generalist framework of social
work practice. A range of
generalist techniques studied as
preparation for practice with
individuals, groups and other
systems. Principles of
interviewing and developmental
helping skills. Roleplaying and
case studies will be used.
Instruction and practice in social
welfare and related agencies
which provide a range of
generalist services. Structured
agency supervision provides
opportunity for students to
develop skills and recognize the
effect their own intervention has
upon clients' lives. Students
spend the equivalent of one full
day per week in field instruction.
Prerequisite: SWK 202 or
permission of instructor.

SWK 362 (S)

SOCIAL WORK THEORY AND
PRACTICE II
3 credits

The Task Centered Model applied
to micro and macro level practice
situations. Concepts from the
biological, social and behavioral
sciences examined to provide an
informed use of the model in a
range of agencies. Structured
agency supervision provides
opportunity for students to
develop skills and recognize the
effect their own intervention has
upon clients' lives. Students

spend the equivalent of one full
day per week in field instruction.
Prerequisite: SWK 361.

SWK 363 (F)

SOCIAL POLICY I
3 credits

Core II

An historical look at the
development of the welfare state
in the United States and analysis
of contemporary social policies.
Particular attention to traditions,
laws, and court decisions
concerning poor people, racial
minorities, immigrants, and
women. Identical with SOC 363.

SWK 364 (S)

SOCIAL POLICY II
3 credits

Core II

Explores contemporary social
policies in the U.S. Topics
selected from the following:
health, aging, mental health, child
welfare, family, welfare, and
educational policy. Domestic and
international alternatives to
current policies discussed.
Advocacy and lobbying processes
are analyzed and practiced.
Identical with SOC 364.

SWK 461-462 (F, S)

SEMINAR IN SOCIAL WORK I
AND II
3-6 credits

Building upon the knowledge,
attitudes, and skills developed in
the junior-level skills and
methodology courses, these
senior seminars deepen students'
understanding of generalist
intervention strategies. While
focusing on both micro and macro
level practice, these courses will
be organized around social work
processes: assessment, planning,
intervention and evaluation.
Students will be given an
opportunity to evaluate their own
practice through empirical testing.

SWK 463-464 (F, S)

FIELD INSTRUCTION I AND II
6-12 credits

Instruction in advanced practice
skills. Students spend two full
days per week in

educationally-directed field placements. To be taken concurrently with SWK 461-462.

SWK 465 (F)

PROFESSIONAL CONSIDERATIONS IN SOCIAL WORK

3 credits

Questions of values and ethics underlying professional social work practice are explored through lectures, analysis of practice, and participation at professional meetings.

Philosophical, political, and sociological perspectives will provide the framework for analysis.

URBAN STUDIES MINOR

Coordinated by: Richard T. Geruson, Ph.D., Economics Department

REQUIREMENTS

Required:

Three courses from the following:

- SOC 212, 306, 308
- HIS 244, 324, 333
- ECN 404
- POL 241, 242; EDC 330
- ENG 302
- PSY 364

Three courses from the following:

- ECN 203
- HIS 337
- SOC 207, 208
- ECN/POL/SOC 320, 321

WOMEN'S STUDIES MINOR

Coordinated by: Patty A. Coleman, M.S.S., Sociology, Social Work, and Criminal Justice

Designed as a minor for women and men students of any major who wish to examine the influence of gender as a cultural and historical variable and to explore the quality of women's lives. The list of courses available to those minoring in Women's Studies changes as new courses become available; students should check with the coordinator for the most up-to-date information on available courses.

REQUIREMENTS

Required:

Up to four courses from:

- ECN 271
- ENG 160, 302, 335
- HIS 328, 329
- SOC 210

At least two courses from:

- CRJ 370, 387
- ENG 435
- PSY 270, 371
- REL 244
- PHL 338
- COM 314
- PHY 170

Business Administration



Degree Program

The School of Business Administration offers a four-year undergraduate program for men and women leading to the Bachelor of Science degree. The program of studies is designed to expose you to a fundamental body of knowledge and standard analytic, communications, and decision-making skills, as well as to current developments in business theory and practice. To ensure that these are contemporaneous, the program is regularly evaluated in terms of: standards established by the American Assembly of Collegiate Schools of Business; standards and norms endorsed by various professional bodies such as the American Institute of Certified Public Accountants, the American Management Association, and the American Marketing Association; and an ongoing dialogue with managers and business professionals in the Delaware Valley. The program prepares graduates to move from the University into management/professional positions in business, government, and nonprofit organizations or into graduate study.

Course requirements and electives are structured to provide: (1) a solid foundation in the arts and sciences as background for professional study in business administration; (2) a business core consisting of study in the several areas of business administration and in analytical methods and techniques; and (3) an opportunity to concentrate in-depth in a professional area as a basis for future career development. The foundation and core studies provide you with an understanding of self, the humanistic and philosophic aspects of man, the traditions of Judeo/Christian thought, and the social, mathematical,

and computing sciences relevant to business practice. The business core and professional studies provide a broad understanding of the theory and practice of administration in large and small organizations.

DEGREE PROGRAM

The curriculum follows the standards established by the American Assembly of Collegiate Schools of Business.

The program leading to a Bachelor of Science degree in Business Administration consists of 120 credits (minimum 38 courses), of which at least 40 percent, and no more than 60 percent, must be in business and economics. The liberal arts and science studies tend to be concentrated in the

first two years and the professional studies in the last two years.

Professional studies include:

- Accounting
- Business Administration
- Finance
- Health Care Administration
- Human Resource Management
- International Studies
- Management Information Systems
- Marketing
- Organizational Behavior
- Production and Operations Management
- Risk Management and Insurance

In addition to the program of academic studies, students are encouraged to be in contact with business practitioners and organizations. This dialogue is achieved through a variety of channels. Students are encouraged to undertake at least one co-op experience. The Executive-in-Residence coordinates the campus appearance of a significant number of corporate speakers during the course of the academic year. The 18 business executives on the Business Advisory Board provide a valuable resource for both students and faculty to draw upon. Finally, students are encouraged to begin formulating and testing career plans through the Career Planning and Placement Office at an early point in their university years.



THE CORE CURRICULUM

The Core Curriculum provides you with an opportunity to build a strong foundation for the future. It encourages you to work out a system of values rooted in the best thinking of the great minds of the past and present.

Whatever your eventual major, your core courses will have allowed you to acquire a basic body of knowledge and habits of thinking that are independent of your career interests. The Core Curriculum at La Salle has been revised after several years of study and debate on the part of students, faculty, and administrators. This new curriculum will give you a real advantage as you attempt to build your life and your career after graduation. It will help you *learn how to learn* by giving you experience in researching information, understanding relationships, and communicating effectively with others.

While the Core allows you some freedom of choice, it includes guidelines which should provide coherence in your college education. The Core Curriculum prepares you to adapt to the ever-changing world by exposing you to a well-thought-out plan aimed at encouraging four years of intellectual and personal growth. The Core Curriculum consists of three parts: Foundation, Core I, and Core II.

Foundation Courses (Typically 9 courses, to be completed by end of sophomore year)

These courses are most directly related to the liberal education approach that is basic to La Salle's aims and traditions. Depending upon your previous preparation, you will take foundation courses in writing, literature, history, computer science, philosophy, science, religion, and social science. The writing and computer science courses are intended to give you the tools you need; the others will acquaint you with some of the best that has been written or thought in each field. The University may waive a writing course and/or a computer science course if your background so warrants.

Core I Courses (6 courses, normally completed by end of junior year)

These courses are an opportunity to build upon the foundations you have in place. In Core IA, you take three courses in Religion and Philosophy (two in one subject and one in the

other). In Core IB, you also take a sequence of three courses in *one* of these:

- History
- Fine Arts (Art or Music)
- Foreign Languages (Classical languages, French, German, Italian, Russian, Spanish)
- Literature

Each sequence has been planned by the individual department to provide growth in the knowledge and skills of that subject.

Core II Courses (2 courses)

- Economics 201 and 1 course from a subject listed below. This course may not be in the subject you choose for your Core I sequence.
- Fine Arts (Art or Music)
- Foreign Language Literature
- History
- Literature
- Social Science (Economics, psychology, political science, sociology)

MATHEMATICS REQUIREMENTS

Business students are required to take MTH 115 and 116 or equivalent.

BUSINESS CORE

The Business Core is intended to introduce you to the four functional areas in business—accounting, finance, management, and marketing—as well as to commonly used analytical concepts—economic and quantitative analysis and law. The following courses constitute the core:

Lower Division (taken freshman and sophomore years)

- Principles of Accounting (ACC 101, 102)
- Introductory Economics (ECN 150, 201)
- Business Statistics (QNT 213)
- Statistical Information Systems (QNT 215)
- Legal Environment of Business (Law 202)

Upper Division (taken junior and senior years)

- Managerial Economics (ECN 302)
- Fundamentals of Financial Management (FIN 300)
- Introduction to Financial Markets and Institutions (FIN 303)

- Production and Operations Management (MGT 300)
- Organizational Behavior (MGT 301)
- Principles of Marketing (MKT 300)
- Business Policy (MGT 485)

PROFESSIONAL STUDIES (4 or 8 courses)

These courses provide an intensive learning experience in one facet of business and serve as a basis for future career development.

Professional specializations are offered in:

- Accounting
- Finance
- Human Resource Management
- Management Information Systems
- Marketing
- Organizational Behavior
- Production and Operations Management

The professional option ordinarily consists of 4 courses in one functional area beyond those courses required in the business core. The accounting option, however, requires 8 courses. This is intended to help you be better prepared to pass the Certified Public Accounting (CPA) examinations or to embark on an accounting career in industry. The professional option may be chosen upon matriculation or within a reasonable time thereafter.

Professional minors are offered in:

- Accounting
- Business Administration
- Health Care Administration
- International Studies
- Risk Management and Insurance
- Other minors are offered by the School of Arts and Sciences.

Students who wish to do so have the option to pursue a dual specialization or a single specialization and a minor. In either case, permission of both Chairs must be obtained.

Effective 1990-91, all students will be required to take a writing emphasis course in their major discipline at the Junior/Senior level.

FREE ELECTIVES

You may choose to concentrate free electives in a particular field or you may use these electives to diversify your background or broaden your interests. To achieve a balance between liberal arts and professional studies, the school limits the accounting major to no more than two elective courses in business administration and economics, and limits other business majors to no more than six courses.



Curriculum

MODEL ROSTER— LOWER DIVISION PROGRAM

FRESHMAN YEAR

Fall

Accounting 101
Math 115
Computer Science 151
English 107¹
Foundation Course

Spring

Accounting 102
Math 116
Foundation Course
English 108
Foundation Course

SOPHOMORE YEAR

Fall

Economics 150
Quantitative Analysis 213
Law 202
Foundation Course
Arts Core

Spring

Economics 201
Quantitative Analysis 215
Foundation Course
Arts Core
Arts Core

MODEL ROSTER— UPPER DIVISION PROGRAM (ACCOUNTING MAJOR)

JUNIOR YEAR

Fall

Accounting 301
Accounting 303
Finance 300
Marketing 300
Arts Core

Spring

Accounting 302
Accounting 304
Finance 303
Management 300
Arts Core

SENIOR YEAR

Fall

Accounting 405
Accounting 407
Management 301
Arts Core
Elective

Spring

Accounting 406
Accounting 480
Management 485
Economics 302
Elective

MODEL ROSTER — UPPER DIVISION PROGRAM (FINANCE, MANAGEMENT, OR MARKETING MAJOR)

JUNIOR YEAR

Fall

Business Core
Business Core
Business Core
Arts Core
Arts Core

Spring

Major Course
Business Core
Business Core
Business Core
Arts Core

SENIOR YEAR

Fall

Major Course
Management 485
Elective
Elective
Elective

Spring

Major Course
Major Course
Elective
Elective
Elective

¹Students who have ENG 107 waived will substitute a Sophomore Foundation course.

PROGRESS RECORD

FOUNDATION(7-9 courses)

- | | |
|---|--|
| 1. Writing I ¹ _____ENG 107_____ | 5. Philosophy_____ |
| 2. Writing II_____ENG 108_____ | 6. Social Science_____ECN 150_____ |
| 3. Literature_____ | 7. History_____HIS 150_____ |
| 4. Religion_____ | 8. Science_____ |
| | 9. Computer Science ² _____ |

¹May be waived by decision of the University before you begin course work.

²May be waived by challenge examination before you begin course work.

CORE I (6 courses)

I A (3 courses)³

Religion and Philosophy

1. Philosophy_____
2. Religion_____
3. Philosophy or Religion_____

I B (3 courses from any *one* of these)³

Fine Arts History

Foreign Language Literature

1. _____
2. _____
3. _____

CORE II (2 courses)³

Economics 201 and one of the following:

Social Science, Fine Arts, Foreign Language Literature, History, Literature_____

MATHEMATICS REQUIREMENTS

Math 115³

Math 116

³Math 115 may substitute for one Core I or Core II course except Economics 201.

BUSINESS CORE (12 courses)⁴

- | | |
|------------------------------|--------------------|
| 1. Accounting 101 | 7. Finance 300 |
| 2. Accounting 102 | 8. Finance 303 |
| 3. Quantitative Analysis 213 | 9. Management 300 |
| 4. Quantitative Analysis 215 | 10. Management 301 |
| 5. Law 202 | 11. Marketing 300 |
| 6. Economics 302 | 12. Management 485 |

⁴300- and 400-level courses may not be taken until student has achieved junior standing.

PROFESSIONAL STUDIES (4 or 8 courses)⁵

- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

⁵The Accounting Option requires 8 courses in professional studies.

ELECTIVES (2-8 courses)⁶

- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

⁶Accounting majors may take no more than 2 electives in business and economics. Other business majors may take no more than 6 electives in business and economics.



Areas of Study

Courses listed in this section are subject to change through normal academic channels. New courses and changes in existing course work are initiated in the departments and approved by the curriculum committee consisting of faculty, student, and administrative representatives. Key: (F)—Offered in Fall term; (S)—Offered in Spring term; (F, S)—Course may be rostered in either Fall or Spring term. The year is indicated if the course is offered in alternate years. When a course number has been changed this year, the former number is given in parenthesis.

ACCOUNTING

FACULTY

Joseph Markmann, C.P.A., *Chair*
Associate Professors: Hanratty,
Kaiser, Kennedy, Markmann,
Reardon, Sweeney
Assistant Professors: Brazina,
Dunne, Massamini, Ugras, Zook
Lecturer: Fitzgerald

REQUIREMENTS

Required for Professional Option
in Accounting: 8 courses

- ACC 301, 302, 303, 304, 405,
406, 407, 480

Required for Minor in Accounting:
6 courses

- ACC 101, 102, 301, 302 and any
2 accounting courses at the
300- or 400- level except 350/450

Prerequisites for 300- and 400-
level courses include Lower
Division Business Core and Junior
standing.

COURSE DESCRIPTIONS

ACC 101 (F) PRINCIPLES OF ACCOUNTING I 3 credits

Training in the fundamental principles of recording business transactions, including a study of the presentation and interpretation of the financial data of a single proprietorship, partnership, and corporation.

ACC 102 (S) PRINCIPLES OF ACCOUNTING II 3 credits

The relationship between understanding accounting procedures and using accounting data effectively; the interrelationships between financial statements and the methods of accumulating data for these statements and how the particular accounting methods used influence business decisions. Problems include depreciation methods, inventory valuation, alternative methods of obtaining capital, and the measurement and control of costs within the corporate entity. Prerequisite: ACC 101.

ACC 301 (F) ACCOUNTING THEORY I 3 credits

Theories and problems involved in proper recording of transactions and preparation of financial statements. Review of accounting cycle, discussion of financial statements, analysis of theory as applied to transactions affecting current assets, current liabilities, long-term investments, and their presentation on the balance sheet. Prerequisite: ACC 102.

ACC 302 (S) ACCOUNTING THEORY II 3 credits

Detailed presentation of theory as applied to plant and equipment, intangible assets, long-term debt, capital stock and surplus; correction of errors of prior

periods; analysis of financial statements; statement of application of funds. Prerequisite: ACC 301.

ACC 303 (F) COST ACCOUNTING 3 credits

Basic principles applied to job cost and process cost systems. Topics include: purchasing and issuing of materials and maintenance of perpetual inventory records, control of labor, methods of distributing factory overhead expenses, evaluation of problems involved in shrinkage and idle time, forms used in job and process cost systems, and discussion of the place of cost accounting in modern enterprises. Prerequisite: ACC 102.

ACC 304 (S) AUDITING 3 credits

A practical presentation of modern audit practices, emphasizing the principles and objectives of an audit. Analysis of the audit basis, the best standards, objective reporting, the adoption of improved accounting standards, business controls, professional ethics, and legal liability. Prerequisite: ACC 302. (Can be taken concurrently with ACC 302.)

ACC 310 (F) FINANCIAL STATEMENT ANALYSIS 3 credits

Comparative analyses by percentages, ratios, trends, graphic reports, and projections applicable to the balance sheet and income statement. Structure and meaning of accounts and peripheral statements such as application of funds and breakeven analysis. Prerequisite: ACC 102.

Areas of Study

ACC 313 (312) (S)
ADVANCED COST ACCOUNTING
3 credits
Economic, industrial, and managerial aspects of cost accounting with emphasis on flexible budget as basis for cost control; analysis of variance and graphic charts. Study of estimated costs, standard costs, and distribution costs. Prerequisite: ACC 303.

ACC 405 (F)
ADVANCED ACCOUNTING THEORY AND PROBLEMS I
3 credits
A study of home office and branch accounting, mergers, acquisitions and preparation of consolidated financial statements, foreign operations. Prerequisite: ACC 302.

ACC 406 (S)
ADVANCED ACCOUNTING THEORY AND PROBLEMS II
3 credits
A study of special topics in accounting theory including partnerships, installment sales, estate and trust, and insolvency in connection with realization and liquidation. Prerequisite: ACC 302.

ACC 407 (F, S)
INCOME TAX
3 credits
Study of Federal tax code as applied to individuals, partnerships, and corporations including exclusions, inclusions, deductions, gains and losses. Review of fiduciary and estate and gift tax.

ACC 350 (F, S, Summer)
COOPERATIVE EDUCATION
3 credits
Consult with Department Chair. Prerequisite: ACC 102.

ACC 480 (F, S)
ACCOUNTING SEMINAR
3 credits
Research in selected topics of accounting theory. Prerequisite: Senior standing.

ACC 483 (F)
ANALYSIS OF ACCOUNTING STANDARDS
3 credits
A review of the interaction of Congress, the SEC and accounting bodies (AICPA, APB, and FASB) in the evolution of accounting standards. APB opinions and FASB statements critically evaluated in light of the various objectives of our accounting system. Prerequisite: Senior standing and approval of the Chair.

ACC 484 (S)
ACCOUNTING REVIEW
3 credits
Serves as capstone to the four-year accounting program. An intensive review of accounting theory, managerial cost, auditing standards, and federal taxation. Emphasis on the direct application of theory through the solving of comprehensive and complex problems in accounting, auditing, and taxation. A thorough review for career development and graduate studies; provides sound preparation for the uniform examination given for certified public accountants. Prerequisite: Senior standing and approval of the Chair.

BUSINESS ADMINISTRATION MINOR

REQUIREMENTS

Required for Minor in Business Administration: 6 courses

- Accounting 101, Finance 303, Management 301, Marketing 300, and
- 2 of the following: Economics 150, Law 202, Quantitative Analysis 213*

* Has additional prerequisites.

This minor is not available to students in the School of Business Administration.

FINANCE

FACULTY

Les Barenbaum, Ph.D., *Chair Professor*: Barenbaum
Associate Professors: Buch, Kelly, Rhoda, Schubert, Woods
Assistant Professors: Olson
Instructors: Fisher, McNichol, Trinidad

REQUIREMENTS

Required for Professional Option in Finance: 4 courses

- FIN 304, 306
- Two courses from among the following: FIN 313, 314, 401, 402, 403, 420, 480

Application may be made in the Spring semester of the Junior year to participate in the Departmental Honors Program during the Senior year. Six credits are earned in lieu of one Finance elective and one free (non-Finance) elective. Consult Department Chair for details.

Prerequisites for 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

FIN 300 (F, S)
FUNDAMENTALS OF FINANCIAL MANAGEMENT
3 credits
An introduction to the major concepts and techniques of financial management with an emphasis on time value of money, capital budgeting, financial statement analysis, financial forecasting, and short-term financial management.

Prerequisites: ACC 102, MTH 115, MTH 116, QNT 213.

FIN 303 (F, S)
INTRODUCTION TO FINANCIAL MARKETS AND INSTITUTIONS
3 credits

An introduction to the basics of institutional finance. Financial instruments are generated and traded by participants in financial markets with financial intermediaries facilitating the process. Concepts, terminology, and current practices in each of these three areas are examined, along with the impact they have on the economy.

FIN 304 (F, S)
INTERMEDIATE CORPORATION FINANCE
3 credits

A continuation of FIN 300. Application of analytical tools and concepts to the business decision process. Case studies, a computer based financial simulation game, electronic spread sheets, and outside readings are used to bridge the gap between theory and practice. Prerequisite: FIN 300.

FIN 306 (F, S)
FINANCIAL MARKETS AND INSTRUMENTS
3 credits

Analysis of the flow of funds in U.S. financial markets; monetary policy; interest rate determination and the characteristics of money and capital markets and instruments. Prerequisite: FIN 303.

FIN 313 (F)
PENSION PLANNING
3 credits

An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include: costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets, including portfolio considerations. Profit sharing

plans and individual retirement plans also covered. Same as RMI 313. Prerequisites: RMI 301 or 302, and FIN 300.

FIN 314 (F)
RISK MANAGEMENT
3 credits

Designed to acquaint the student with the nature of risk management and the roll of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as RMI 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

FIN 401 (F)
INVESTMENT ANALYSIS
3 credits

Analytical techniques are used to investigate market efficiency and portfolio selection. Analysis of the bond market and stock market. Prerequisite: FIN 306.

FIN 402 (S)
SPECULATIVE MARKETS AND PORTFOLIO ANALYSIS
3 credits

The study of strategies involving the analysis and management of capital market securities, futures, and options. Prerequisite: FIN 306.

FIN 403 (F, S)
INTERNATIONAL FINANCE
3 credits

The study of multinational business practice, direct foreign investment, and managerial challenges in operating abroad. Foreign exchange markets and exchange determination; international banking and balance of payments issues. Prerequisite: FIN 303.

FIN 420 (S)
FINANCIAL MANAGEMENT OF THE INSURANCE FIRM
3 credits
A functional course emphasizing the interrelationships among underwriting, investment, regulation, and other aspects of insurance company and insurance agency operations. Dynamic computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as RMI 420. Prerequisites: RMI 301 or 302 and FIN 300.

FIN 450 (F, S, Summer)
COOPERATIVE EDUCATION
3 credits
Paid employment in an area firm or government agency. Appropriate job-related learning assignments under faculty supervision. Consult Department Chair.

FIN 480 (S)
SEMINAR IN FINANCE
3 credits
Selected topics in finance studied in-depth under the direction of staff. Prerequisite: Senior standing.

HEALTH CARE ADMINISTRATION MINOR

FACULTY

Coordinated by: Anne Walsh, M.S.W., M.B.A., Accounting Department
Assistant Professor: Walsh
Lecturers: Griffin, Whitman

REQUIREMENTS

Required for Financial Management Option: 6 courses
• HCA 370, 371, 374, 475, 480

Areas of Study

- One course from Lower Division Business Core or approved list.*

Required for Generalist Option: 6 courses

- HCA 370, 371, 472, 473
- Two courses from Lower Division Business Core or approved list.*

*Approved list: PHL 223, PSY 205, REL 323, SOC 309, RMI 311.

Prerequisites for 300- and 400-level courses include Junior standing.

COURSE DESCRIPTIONS

HCA 370 (F, S) **INTRODUCTION TO HEALTH CARE ORGANIZATION AND MANAGEMENT** 3 credits

Analyzes the organization and administration of the health care system in relation to regulatory, technological, and financial variables affecting their operation. Managerial tasks of planning, controlling, motivating, and organizing applied to the management of health care institutions.

HCA 371 (F, S) **LEGAL ASPECTS OF HEALTH CARE DELIVERY** 3 credits

Provides a fundamental orientation to the field of health care law with specific emphasis upon the duties, authority, and personal liability of the administrator in relation to the governing board, staff, and patients. Legislation and current regulations affecting the administration and delivery of services in health care institutions examined in conjunction with the legal and ethical rights of patients.

HCA 374 (F)
HEALTH CARE ACCOUNTING
3 credits
Methods for identifying, controlling, and evaluating accounting data for use in health care administration. Comparison of health care accounting and accounting for industrial entities. Contribution margin analysis, budgeting, cost accumulation techniques, and variance analysis. Prerequisites: ACC 101, 102.

HCA 472 (F)
HEALTH CARE PLANNING AND POLICY ANALYSIS I
3 credits
Comparative analysis of international health care policies with specific emphasis upon the socio-economic, political, and epidemiological variables influencing health care policy in the U.S. Planning methodologies examined from the perspective of area-wide planners in relation to their impact upon the evaluation of current health care policy in the U.S. Forecasting techniques to project regional and community need for specialized, ambulatory, in-patient, and long-term care services are examined within a systems perspective. Prerequisite: HCA 370.

HCA 473 (S)
HEALTH CARE AND POLICY ANALYSIS II
3 credits
Systems analysis of the various organizational factors influencing institutional policy formulation and managerial decision-making. Roles and relationship of the governing board, medical/professional/non-professional staff and administrator discussed in relation to their impact upon institutional policies. Field experience and seminar are integral components of this course. Prerequisite: HCA 472.

HCA 475 (F)
FINANCIAL MANAGEMENT OF HEALTH CARE INSTITUTIONS
3 credits
Analyzes the financial environment of health care institutions. Sources of revenue such as BC/BS, Medicare/Medicaid, and HMO examined in relation to operating costs. Alternate methods of financing capital investment explored in conjunction with capital expenditure controls. Prerequisites: FIN 300, HCA 370.

HCA 480 (S)
SEMINAR IN HEALTH CARE FINANCIAL MANAGEMENT
3 credits
Theoretical principles of health care financial management applied in a supervised practicum in a health care institution. Selected topics related to health care financial management examined in conjunction with the field placement. Prerequisite: HCA 475.

INTERNATIONAL STUDIES MINOR

Directed by: Joshua Buch, Ph.D., Finance Department
(See requirements for International Studies Minor on page 71.)

LAW

FACULTY

Pre-Law Program coordinated by: Arthur R. Shuman, Jr., J.D.
Assistant Professor: Cogan, Shuman
Lecturers: Glancy, Porter, Siegel

REQUIREMENTS

Law courses may be taken as electives. LAW 202 is required of all business administration

students. While there is no pre-law major, certain of these courses may be recommended for pre-law students by the Coordinator.

Junior standing is a prerequisite for all 300- and 400- level courses.

COURSE DESCRIPTIONS

LAW 202 (F, S)
LEGAL ENVIRONMENT OF BUSINESS
3 credits

A study of the politico-legal framework within which business operates. The nature, formation, and application of law to business; the historical development and present constraints upon decision making; the interface of business and the whole of its legal settings. Legal procedure, judicial, legislative, and administrative law considered in perspective.

LAW 300 (F, S)
APPROACHES TO THE LAW OF CONTRACTS
3 credits

The study of both the common law approach to contracts, which governs real estate transactions, service oriented contracts and all non-sale contracts, leases, licenses, etc., and the Uniform Commercial Code approach, which deals exclusively with contracts for the sale of goods.

LAW 301 (S)
LAW OF AGENCY, PARTNERSHIPS, AND CORPORATIONS
3 credits

Common law and statutes relating to the creation, operation, and termination of agencies, partnerships, and corporations. Emphasis on the Common Law of Agency, the Uniform Partnership Act, and the Business Corporation Law of Pennsylvania.

LAW 401 (F)
LAW OF REAL ESTATE
3 credits

Common law and statutes of court process which the real estate salesman and broker encounter daily, including the legal principles applicable to the listing contract, the agreement of sale, mortgages, deeds, leases, adverse possession, easements, licenses, proving and recording title. This course has been accepted by the Pennsylvania Real Estate Commission as fulfilling the course requirement for a salesperson's license.

LAW 402 (F 1989, F 1991)
LAW OF NEGOTIABLE INSTRUMENTS
3 credits

Application of the common law of the Uniform Commercial Code to checks, promissory notes, and bills of exchange. The use of commercial paper in security transactions and in the creation of credit. The laws of principal and surety, and insurer and insured as related to the use of commercial paper.

MANAGEMENT

FACULTY

Steven Meisel, Ph.D., *Chair*
Professors: Goldner, Halpin, Joglekar, Seltzer

Associate Professors:

Korzeniowski, MacLeod, Miller, Troxell

Assistant Professors: Lee, Meisel, Rappaport, Szabat, Tavana, Van Buskirk

Instructor: Gauss

Lecturers: Karl, Marks, Mudrick

The Management Department coordinates the professional options in:

- Human Resource Management
- Management Information Systems
- Organizational Behavior

- Production and Operations Management

HUMAN RESOURCE MANAGEMENT

The Management Department coordinates the courses in this area.

REQUIREMENTS

Required for Professional Option in Human Resource Management: 4 courses

- HRM 300, 301, 401
- Choose One: HRM 303, 304, or 307

Prerequisites for 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

HRM 300 (F, S)
PERSONNEL ADMINISTRATION
3 credits

Designed to train students to analyze existing human resource programs and to adapt and develop procedures and methods which will ensure effective personnel administration. Job analysis; policy determination and administration; selection, promotion and transfer; E.E.O.; health, safety and OSHA.

HRM 301 (F, S)
LABOR UNIONS—ORGANIZATION AND ADMINISTRATION
3 credits

Sources of the union movement, its history, structure and function. Development of economic, political and social power; problems involved in the use of this power; management rights; management reaction to unions. Outside readings and term paper required.

Areas of Study

HRM 303 (F)

EMPLOYMENT PRACTICES AND THE LAW

3 credits

Designed to educate future managers as to the options available in dealing with the individual in the work place. Topics: labor law; arbitration; fair employment practices; and health and safety in the work place. Cases, paper and legal research problems.

HRM 304 (S)

COMPENSATION ANALYSIS

3 credits

Study of compensation policies and practices. Emphasis on job evaluation, rate ranges, incentive plans, and benefit programs. Federal and state laws examined. Field work and legislative research report required.

HRM 307 (F, S)

HUMAN RESOURCE STAFFING AND DEVELOPMENT

3 credits

The study of employee hiring procedures and the training of personnel in organizations. Examination of recruiting, selecting and interviewing, and orienting new employees. Emphasis on training and career development programs applied to specific employee groups.

HRM 401 (S)

COLLECTIVE BARGAINING

3 credits

A study of the external and internal factors influencing the establishment of labor and management agreements and their day-to-day application to employer-employee problems. Outside readings and student case reports required. Prerequisites: HRM 300 or 301.

HRM 450

COOPERATIVE EDUCATION

3 credits

Identical to MGT 450.

HRM 480

HUMAN RESOURCE INTERNSHIP

3 credits

A study and evaluation of an organization's human resource policies and program carried out while student is employed part-time as a trainee. A student report will recommend a plan of action to improve the organization policies and their administration.

MANAGEMENT INFORMATION SYSTEMS

The Management Department coordinates these courses.

REQUIREMENTS

Required for Professional Option in Management Information Systems: 4 courses

- MIS 381, MIS 402, MIS 410, and one of the following: MIS 371 (Special Topics), CSC 350, or ACC 470 (Special Topics in Accounting Information systems).

Prerequisites to 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

MIS 371 (F)

SPECIAL TOPICS

3 credits

Designed to address contemporary issues and interests in Management Information Systems. Such topics as Office Automation, Information Systems Evaluation, Information Resources Management, and User Interfaces will be offered in various semesters. Prerequisite: QNT 215

MIS 381 (S)

DECISION SUPPORT AND EXPERT SYSTEMS

3 credits

This course is about the manager's responsibilities for problem solving and decision making in the Information Age. Topics include Methods of Decision Making and Problem Solving, Decision Support Modeling, Expert Systems Development Life Cycle, Knowledge Engineering, Meta-Knowledge, Systems Validation and Verification. The students are required to apply Decision Support and Expert Systems Software Packages in a hands-on environment. Prerequisite: QNT 215

MIS 402 (F)

SYSTEMS ANALYSIS AND DESIGN

3 credits

Complex systems and organizations are examined, with the goal of discovering their structure and information flow. Tools such as the Data Flow Diagram, Data Dictionary, and System Specifications are produced. Systems Design topics such as User Interfaces, Design Alternatives, Prototyping, Input, Output, and File Design are discussed in detail. Prerequisite: QNT 215 and Senior standing

MIS 410 (S)

SYSTEMS DEVELOPMENT AND IMPLEMENTATION

3 credits

Intended as a capstone course in Management Information Systems. A project course in which students develop and implement a complete Information System using the Systems Development Life Cycle in the context of a real organization. The latest systems development technologies, such as Prototyping and Computer-Aided Software Engineering (CASE) are discussed and practiced. Prerequisites: MIS 402 and Senior standing

ORGANIZATIONAL BEHAVIOR

The Management Department coordinates the courses in this area.

REQUIREMENTS

Required for Professional Option in Organizational Behavior: 4 courses.

- 3 of the following: MGT 303, 306, 307, 350, 370 (Special Topics), 381, HRM 300, HRM 307
- 1 of the following: MGT 404 or 480

Prerequisites to 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

MGT 300 (F, S)
PRODUCTION AND OPERATIONS MANAGEMENT
3 credits
Basic concepts of production/operations management including standardization of product/services, the distinction between product-oriented and process-oriented production systems, and the principles of planning, organizing and control for operating managers. Topics include: forecasting, capacity planning, product mix, plant layout, work methods, inventory theory. Exposure to quantitative techniques such as the break-even model, decision trees, linear programming, exponential smoothing, line balancing, and the economic order quantity model. Use of prepackaged computer programs. Deals with several manufacturing and service industries. Also discusses differences between the U.S. and the Japanese production systems. Prerequisites: MTH 115, 116, QNT 213

MGT 301 (F, S)
ORGANIZATIONAL BEHAVIOR
3 credits
Consideration of the key issues of human behavior at work. Topics include: leadership, motivation, communication, group dynamics, organizational structure and other topics relating to management of organizations. Current readings, cases, and experiential learning.

MGT 303 (F)
CREATIVE THINKING AND DECISION MAKING
3 credits
Principles and techniques of how to think creatively; creative exercises. Complex cases for realistic decision making analyzed and evaluated in writing. Comprehensive reports required. Prerequisites: MGT 300, 301.

MGT 304 (F)
PRODUCTION PLANNING AND CONTROL
3 credits
Extends the basic concepts of production/operations management. Includes: Design of production control systems, forecasting, production planning, process planning and control, Just-in-Time (JIT), Total Quality Control (TQC), Computer-aided Design/Computer-aided Manufacturing (CAD/CAM), Decision-Support and Expert Systems (DSS/ES), Flexible Manufacturing Systems (FMS). Applications to manufacturing industries. Prerequisites: MGT 300, QNT 215.

MGT 305 (S)
PLANNING AND CONTROL IN SERVICE INDUSTRIES
3 credits
Selected topics in operations planning and control, including: forecasting, PERT, queuing theory, line balancing and optimal overbooking in a service situation. Concepts such as the distinction between high-contact and low-contact services, services *for* people versus services *to* people,

and system-focus versus people-focus in service design are discussed. Applications to several service industries, including hospitals, banks, post-offices, schools, social service agencies. Prerequisite: MGT 300, QNT 215.

MGT 306 (F, S)
CORPORATE PLANNING AND MANAGEMENT CONTROL
3 credits
The nature and principles of corporate planning, relationship of planning to management control, and the structure and process of management control in organizations. Prerequisite: MGT 301.

MGT 307 (S)
ORGANIZATIONAL ANALYSIS
3 credits
Develops an understanding of the interaction of organizational structure and processes. Examines relationship of internal and external environments. Studies organizational design and utilizes current theories of organizational behavior as practical tools in analyzing specific organizations. Prerequisite: MGT 301.

MGT 350 (F, S)
INTERPERSONAL COMMUNICATION
3 credits
An examination of the process of communication in personal and organizational settings. Focus on the individual's styles and patterns of communicating, verbal and nonverbal modes, self-image, listening, perception, and barriers to effective communication. Emphasizes building communication skills through active participation in experiences and discussions in class. Limited enrollment. Course generally equivalent to PSY 350. Prerequisites: permission of instructor, MGT 301.

Areas of Study

MGT 381 (F, S)

MULTINATIONAL MANAGEMENT 3 credits

Study of the conduct of business in foreign countries from a managerial point of view. Topics pertaining to the multinational industrial and commercial activities of American enterprises presented and discussed. The United States' involvements and relations with foreign organizations such as OPEC, OCED, and ECM analyzed. United Nations regulations, commitments, and protections examined. Prerequisite: MGT 301.

MGT 404 (F, S)

ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT 3 credits

The actual art and practice of managing a small enterprise. Concepts and methods for decision making and being competitive. Actual cases with live situations and outside speakers from all areas—business, government, and organized labor—impinging on the small entrepreneur today. Prerequisites: MGT 300, 301, Business Core.

MGT 450 (F, S, Summer)

COOPERATIVE EDUCATION 3 credits

A paid, managerial job (minimum duration: 16-week full-time equivalent) in an area firm or government agency. Appropriate job-related learning assignments under faculty supervision. Consult Department Chair.

MGT 480 (S)

SEMINAR IN MANAGEMENT 3 credits

Emphasis on modern, positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive course with emphasis on modern,

positive management concepts and practices. Class discussion and analysis of best-managed companies in the U.S. and overseas. Integrates all management and other business courses. Comprehensive reports required. Prerequisite: Senior standing.

MGT 485 (401) (F, S)

BUSINESS POLICY 3 credits

Intended as a capstone course in business administration. Integration of backgrounds acquired from accounting, finance, production, personnel, and marketing, strategic planning and implementation; analysis and discussion of actual or simulated situations. Prerequisite: Senior standing

PRODUCTION AND OPERATIONS MANAGEMENT

The Management Department coordinates the courses in this area.

REQUIREMENTS

Required for Professional Option in Production and Operations Management: 4 courses.

- MGT 304, MGT 305, MGT 404 or 480, QNT 302 or 303

Prerequisites to 300- and 400-level courses include Lower Division Business Core and Junior standing.

QUANTITATIVE ANALYSIS

The Management Department coordinates the courses in this area.

Prerequisites to 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

QNT 213 (F, S)

INTRODUCTION TO BUSINESS STATISTICS 3 credits

Basic statistical methods used in the analysis of business and economic decision problems. Emphasis on valid applicability of techniques, sound interpretation of statistical results, as well as successful execution of statistical methods. Topics include: descriptive statistics, both graphical and numerical; probability and probability distributions; sampling distributions; statistical estimation and hypothesis testing; and simple regression and correlation. Students will be introduced to a microcomputer statistical software package. Identical with ECN 213. Prerequisites: MTH 115, 116, CSC 151

QNT 215 (F, S)

STATISTICAL INFORMATION SYSTEMS 3 credits

Information systems and computer-based statistical analysis; the role of information systems within the organization and their use in application with statistical analysis. Information systems topics include: business information systems; software packages and operating systems; text processing and graphics; electronic spreadsheets; database management systems; and problem solving with computers. Statistics topics include: simple regression and correlation; multiple regression; time series analysis. Various statistical packages introduced. Prerequisites: CSC 151, QNT 213.

QNT 301 (F)

QUANTITATIVE TECHNIQUES IN DECISION-MAKING 3 credits

Basic quantitative methods used in analysis and decision-making.

Emphasis on the appropriate use of a quantitative method (model) in the decision-making process, as well as the successful execution of various mathematical models. Case studies facilitate understanding of the material and its applicability to real world problems. Topics: probability concepts, Bayes Theorem, decision tree analysis, utility theory, linear programming, network programming, dynamic programming queuing models and simulation. Introduction to a management science software package on the microcomputer. Prerequisites: QNT 213, 215, MGT 300.

QNT 302 (S)
STATISTICAL QUALITY ASSURANCE

3 credits
Control charts for variable and attributes, acceptance sampling plans; costs of quality. Prerequisite: QNT 213, 215.

QNT 303 (S)
TOPICS IN APPLICATION OF STATISTICS

3 credits
Selected topics in forecasting; regression of time series data, classical analysis of time series data such as the decomposition method, exponential smoothing, and Box-Jenkins methods. Prerequisite: QNT 215.

MARKETING

FACULTY

Andrew G. Bean, Ph.D., *Chair*
Associate Professors: McCloskey, Reifsteck, Swoyer
Assistant Professors: Bean, Javie, Mohebbi, Talaga
Instructor: Gray
Lecturers: Eisenberg, Willig

REQUIREMENTS

Required for Professional Option in Marketing: 4 Courses
• MKT 301, 302, 401, 402

Prerequisites to 300- and 400-level courses include Lower Division Business Core and Junior standing.

COURSE DESCRIPTIONS

MKT 300 (F, S)
PRINCIPLES OF MARKETING
3 credits

An overview of marketing concepts and principles applicable to business and other organizations. Factors influencing the marketing environment and buyer behavior; market segmentation and targeting. Product development, pricing, promotion and distribution to satisfy the needs of selected target markets.

MKT 301 (F)
PERSONAL SELLING
3 credits

The importance and practice of individual selling in the economy. Sales personality, the phases of a sales presentation, types of buyers, and ethics in salesmanship. Prerequisite: MKT 300.

MKT 302 (S)
ADVERTISING AND PROMOTIONAL MANAGEMENT
3 credits

Economic and social aspects of promotion, including the important methods and techniques of research which form the basis of any promotional campaign; a practical treatment of advertising copy, layout and media; effectiveness of advertising, advertising departments and the advertising agency. Prerequisite: MKT 300.

MKT 303 (S)
SALES MANAGEMENT
3 credits

The activities of a sales manager in directing and controlling a sales force; recruiting, selecting, training, compensating, motivating, and supervising salesmen; establishment of sales territories, quotas, and budgets. Prerequisite: MKT 300.

MKT 304 (F)
INDUSTRIAL MARKETING
3 credits

A systematic analysis of the differences between industrial and consumer markets. Strategic orientation of industrial companies and its effect on product, price, promotion, and distribution decisions. The impact of international competition on industrial markets. Prerequisite: MKT 300.

MKT 371
CONSUMER BEHAVIOR
3 credits

A study of the consumer to allow the marketing manager to develop better marketing strategies. The course looks at the complex nature of the human being in terms of the social, cultural, psychological, and economic dimensions of man as they apply to his decision making and acquisitive nature. Prerequisite: MKT 300.

MKT 372
RETAILING
3 credits

Application of marketing concepts and principles to the management of retail institutions. Major topics include choice of store location, merchandise planning and management, retail pricing and promotion, and the impact of a changing environment on retailing. Prerequisite: MKT 300.

Areas of Study

MKT 373

PRINCIPLES OF PURCHASING

3 credits

A study of purchasing principles applicable to industrial firms, wholesalers, retailers, and government procurement agencies. Relationship between marketing and purchasing functions. Legal considerations of contracts and agency. The art of negotiation; cost/price analysis as it affects buyer and seller.

Prerequisite: MKT 300.

MKT 401 (F)

MARKETING RESEARCH

3 credits

The use of scientific method in the solution of specific marketing problems and in the conduct of general market research studies: methods of marketing research, gathering data, tabulation and analysis, interpretation of results, and report presentation.

Prerequisites: QNT 213, MKT300, MTH 116.

MKT 402 (S)

MARKETING MANAGEMENT

3 credits

Integrates all other marketing courses. Study of actual business cases employing managerial approach to marketing; emphasis on decision making and the strategies used by the marketing manager as he adapts his marketing mix to rapidly changing conditions. Prerequisites: MKT 301, 302, 401, or permission of instructor.

MKT 405

MARKETING CHANNELS

3 credits

The marketing approach to physical distribution focusing on transportation, warehousing, channels, physical distribution systems, geography, material handling and planning and their effect on successful marketing.

Prerequisite: MKT 300.

MKT 450

COOPERATIVE EDUCATION

3 credits

A full-time paid marketing position coordinated with academic learning experiences under faculty supervision. Contact the Office of Career Planning and Placement for further information.

MKT 470 (F,S)

INTERNSHIP IN MARKETING

3 credits

A study of an organization's marketing program conducted while the student is serving part-time as a trainee. Carried out under faculty supervision. See Department Chair for further information.

RISK MANAGEMENT AND INSURANCE MINOR

FACULTY

Coordinated by: Kathleen A. McNichol, M.B.A., C.P.C.U., Finance Department
Associate Professor: J. Kelly
Instructor: McNichol

REQUIREMENTS

Required for Minor in Risk Management and Insurance: 6 courses from the following:

- RMI 301, 302, 311, 312, 313, 314, 420.
- ACC 101; FIN 300; LAW 202; QNT 213.

Business majors are required to take at least 4 RMI courses; Non-business majors are required to take at least 3 RMI courses.

Prerequisites to 300- and 400-level courses include Junior standing.

COURSE DESCRIPTIONS

RMI 301 (F)

FUNDAMENTALS OF RISK AND INSURANCE

3 credits

Introduction to the underlying principles, practices, and the legal aspects of insurance; survey of personal lines such as auto, homeowners, life, health; commercial lines coverages, including fire, marine, fidelity and corporate surety, workers' compensation, business interruption.

RMI 302 (S)

INTRODUCTION TO LIFE INSURANCE

3 credits

The problems of alternative techniques for insuring of human life values considered from the differing viewpoints of the company, the economy, and the consumer. Financial needs in the life cycle of the family; elements of business insurance, such as group life insurance; mortality; underwriting; rate determination and reserves.

RMI 311 (S)

HEALTH CARE INSURANCE

3 credits

An interdisciplinary approach to the techniques and problems of financing health care with emphasis on prepayment devices, including medical insurance benefit systems, Blue Cross-Blue Shield prepayment plans, independent prepayment plans, and medical expense benefits through social insurance and social welfare programs. Effects of financing methods on the availability, quality, and planning of health care explored.

RMI 312 (S)

COMMERCIAL PROPERTY AND LIABILITY CONTRACTS

3 credits

Detailed examination of the major commercial policies and forms. Included are business

interruption and extra expense coverage, ocean and inland marine, crime, liability, auto, and workers' compensation policies along with bonding. Prerequisite: RMI 301.

RMI 313 (F)
PENSION PLANNING

3 credits

An examination of private pension plans, including historical background, regulatory environment, benefits and costs. Topics include costs computation methods, benefits formulae, inflation impact, plan membership profile, accounting and tax considerations, and management of fund assets including portfolio considerations. Profit sharing plans and individual retirement plans are also covered. Same as Finance 313. Prerequisites: RMI 301 or 302, and FIN 300.

RMI 314 (F)
RISK MANAGEMENT

3 credits

Designed to acquaint the student with the nature of risk management and the role of the risk manager in business or governmental organizations. Emphasis on risk analysis and control functions: recognition, measurement and treatment. Historical and forecast financial statements are scrutinized for the purpose of risk identification. Same as FIN 314. Prerequisites: RMI 301 and QNT 213 (or equivalent).

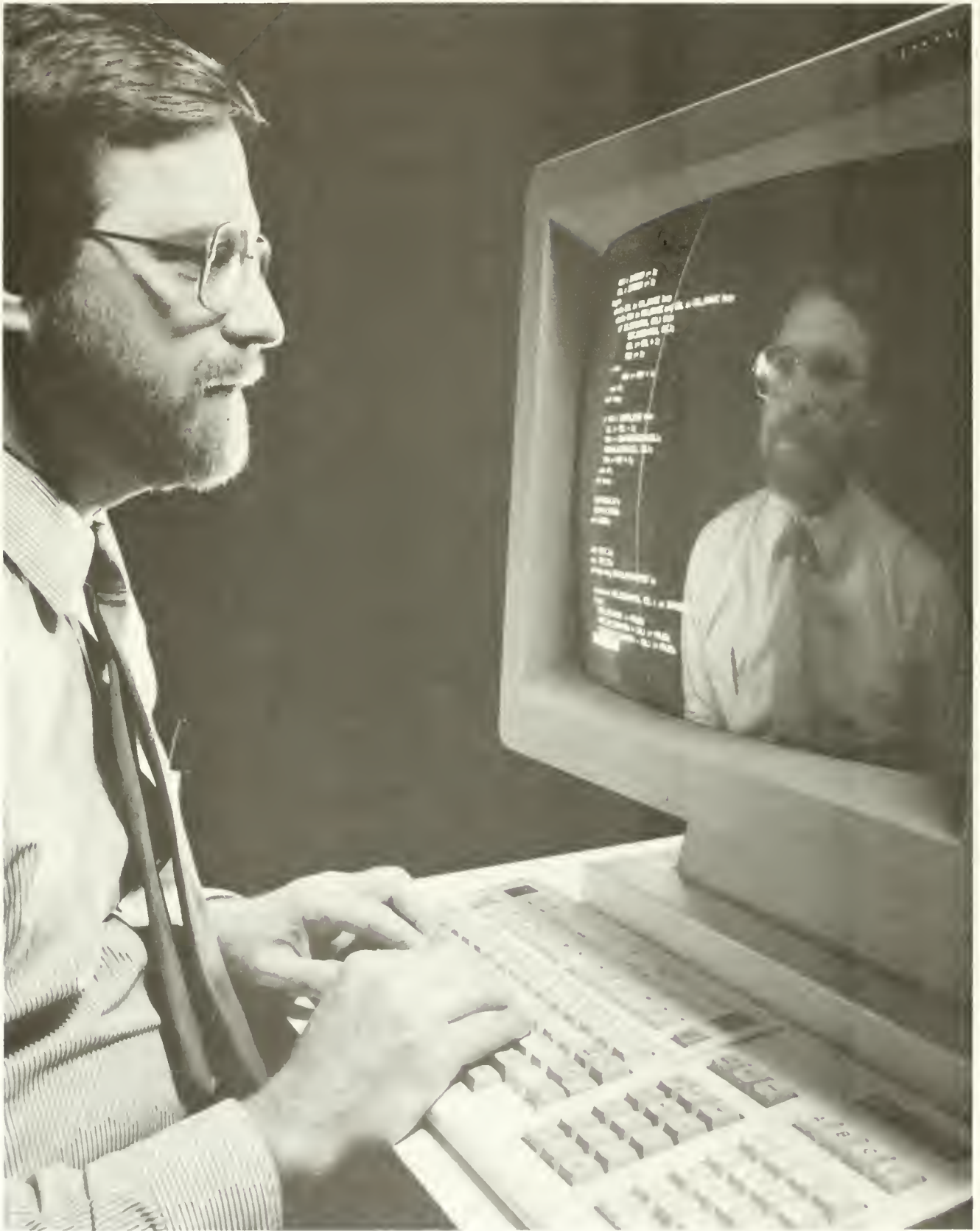
RMI 420 (S)
FINANCIAL MANAGEMENT OF THE INSURANCE FIRM

3 credits

A functional course emphasizing the interrelationships among underwriting, investment, regulation and other aspects of insurance company. Computer models of a property-liability insurer and a life insurer are used to demonstrate effective financial management of the insurance firm. Same as FIN 420. Prerequisites: RMI 301 or 302, and FIN 300.



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Academic Calendar 1989-90

Fall Semester

August 28-30	On-Campus registration— 9:00 A.M. to Noon
September 6	Beginning of classes
September 12	Last day for change of roster
September 28	Last day for filing Pass/Fail Option
October 22	Academic Convocation
October 30	Mid-semester holiday
November 2	Spring semester pre-registra- tion begins
November 7	Mid-semester grades due
November 14	Last day for withdrawal from courses
November 23-24	Thanksgiving holidays
December 12	Classes end for Fall semester
December 13	Reading Day
December 14-20	Final examinations
December 21	Snowdate for Finals
January 3	Fall semester grades due

Spring Semester

January 9-10	On-campus registration— 9:00 A.M. to Noon
January 15	Beginning of classes
January 19	Last day for change of roster or removal of "I" grades
February 2	Last day for filing Pass/Fail Option
March 5-9	Mid-semester holiday
March 13	Mid-semester grades due
March 20	Last day for withdrawal from courses
March 21	Fall semester pre-registra- tion begins
April 13	Easter recess begins
April 17	Classes resume at 8:30 A.M.
April 27	Classes end for Spring semester
April 30-May 4	Final examinations
May 7	Graduating Seniors' grades due
May 13	Commencement
May 14	Spring semester grades due

1989
AUGUST

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